

University of Michigan
College of Literature, Science, and the
Arts

LSA Bulletin: 2022-2023

This document is an unofficial representation of the information available on the LSA Website

LSA Degrees

Degrees and Selection of a Degree Program

The College awards three basic degrees: the Bachelor of Arts (A.B.), the Bachelor of Science (B.S.), and the Bachelor in General Studies (B.G.S.). The Bachelor of Science in Chemistry (B.S. Chem.) is also granted. The Bachelor of Arts and Bachelor of Science degrees require a general understanding of the humanities, natural sciences, and social sciences, as well as in-depth study of at least one subject area. Students are also required to achieve competency in the use of the English language and to acquire proficiency in a language other than English. They must elect one or two courses designed to develop skills in quantitative reasoning and one course addressing issues involving race and ethnicity.

Beyond these general requirements, students may choose elective courses to complete a minimum of 120 credits.

The Bachelor of Science degree requires 60 credits in physical and natural science and mathematics. Students pursuing a secondary teaching certificate are required to earn additional credits through the School of Education.

The Bachelor in General Studies degree encourages students to take responsibility for structuring their own multidisciplinary academic programs. This degree requires a minimum of 120 credits and includes First-Year Writing, Upper-Level Writing, Race and Ethnicity, and Quantitative Reasoning requirements. At least 60 credits of courses numbered 300 or above must be completed with no more than 20 of these 60 credits from one subject.

Residential College (RC) students doing a B.G.S. must include in their academic plan the completion of the RC arts practicum, the live-in requirement, the RC language requirement, requirement for four RC courses.

Honors students must consult the Honors Program about special degree requirements, courses, policies, and procedures. RC students should consult advisors in the Residential College to plan their degrees.

Bachelor of Arts (A.B.) or Bachelor of Science (B.S.)

The **Bachelor of Arts** and **Bachelor of Science** degrees require competency in each major area of knowledge and a deep understanding of at least one subject area. Each student is required also to achieve competency in the use of the English language, to acquire second-year college-level proficiency in a language other than English, to receive credit for an approved course addressing questions on race and ethnicity, and to fulfill the quantitative reasoning requirement.

Beyond these general requirements, students are free to choose elective courses to complete a minimum of 120 credits.

Credits and Grade Point Average

A student must complete a minimum 120 credits with a cumulative grade point average (GPA) of 2.0 (C) or better. The overall GPA of courses included in the field of the major for an A.B. or B.S. degree or counted toward the 60 credits of upper-level courses required for a B.G.S. degree must be at least 2.0.

Bachelor of Science Eligibility

The difference between the A.B. and B.S. degree is that the B.S. degree requires 60 credits of approved courses in the physical and natural sciences and/or mathematics.

College Writing Requirements (A.B., B.S., B.G.S.)

- **First-Year Writing Requirement**
The goal of the First-Year Writing Requirement (FYWR) is to prepare students for the type of writing most often assigned and valued in University courses. Students cannot fulfill the requirement through Advanced Placement (AP) scores. Students should complete their first-year writing course in their first year, and must earn a C- or higher to meet the requirement. This requirement should be satisfied before attempting a course to meet the Upper-Level Writing Requirement. The majority of students fulfill the first-year writing requirement through English 125 (Writing and Academic Inquiry) and English 124 (Academic Writing and Literature), but there are a few other courses around the University that also fulfill the requirement. Engineering 100 does not fulfill the FYWR in LSA.
- **Upper-Level Writing Requirement**
The goal of the Upper-Level Writing Requirement (ULWR) is to teach students to recognize and practice the range of writing activities and forms typical of academic and professional contexts. Students should satisfy the First-Year Writing Requirement before electing one of the courses approved to satisfy the ULWR. A minimum course grade of C- is required in order to satisfy the ULWR. Over the course of the term, students will complete several writing assignments that are related to course content and intended to help students practice the rhetoric of their specific discipline. Possible assignments may include journals, research papers, critical analyses, and/or lab reports. Students will receive feedback on their writing from their ULWR instructor and are expected to revise much of their work throughout the term. Upper-Level Writing Requirement courses offered for a particular term can be found in the LSA Course Guide.

Race & Ethnicity Requirement (A.B., B.S., B.G.S.)

Students choose one course from a list of approved courses that cover issues relating to race and ethnicity, racial and ethnic intolerance, and inequality. The goal is to prepare students to live and work in a multiethnic, multiracial environment.

Quantitative Reasoning Requirement (A.B., B.S., B.G.S.)

Students are required to take one or two courses from an approved list that focus on the methodology of quantitative analysis. The goal is to ensure that students achieve a level of proficiency in using and analyzing quantitative information.

Non-LSA Coursework (A.B., B.S., B.G.S.)

To qualify for a degree, a student must complete a program of study that includes primarily coursework from the College of Literature, Science, and the Arts or equivalent LSA transfer credit.

Candidates for the A.B., B.S., or B.G.S. degree must complete a minimum of 100 credits of LSA courses, thus allowing 20 credits of non-LSA coursework in the 120 required for the degree.

Language Requirement (A.B., B.S., B.G.S.)

Students are required to complete fourth-term proficiency in a language other than English, most often by earning credit for the fourth term of a University of Michigan language course. The goal is to offer a means of access to the cultural and intellectual heritage of the world's non-English speaking majority, as well as to provide reflective understanding of the structure and complexity of English itself. LSA offers over 30 different languages that meet this requirement.

Area Distribution (A.B., B.S., B.G.S.)

Students must complete 30 credits outside of their major distributed over the following five categories: Natural Sciences, Social Sciences, Humanities, Mathematical and Symbolic Analysis, and Creative Expression. Through this requirement, students gain an understanding and appreciation of the major areas of learning and a coherent view of the essential concepts, structures, and intellectual methods that typify these disciplines.

Major (A.B., B.S., B.G.S.)

The major provides the option for a student to pursue a thorough investigation of a particular subject or discipline. Course requirements of majors offered vary from 24 to 48 credits.

Option for Minors (A.B., B.S., B.G.S.)

A.B. and B.S. students have the opportunity to complete a minor as part of the degree program. Departments have the option of whether or not to offer a minor, and many develop several. As departmental minors are created and approved, students may choose to add a minor to their academic plan.

Bachelor of Science Eligibility

BS eligibility courses offer students the opportunity for substantial engagement with the theories or applications of one or more of the following: subject content in the physical, life, and cognitive and computational sciences; natural science methodologies; mathematical content and reasoning; quantitative approaches and methodologies; formal reasoning; technology.

Bachelor of Science in Chemistry (B.S.Chem.)

The curriculum leading to the degree of Bachelor of Science in Chemistry has been planned for students preparing for professional work in chemistry, biochemistry, or related fields. The major in chemical sciences entails a lesser degree of specialization than that leading to the B.S.Chem.

The B.S.Chem. is the most rigorous degree in pure chemistry offered by the department, and it should be the degree of choice for students who plan to pursue Ph.D. studies in one of the traditional sub-areas of the field (organic chemistry, inorganic chemistry, physical chemistry, and analytical chemistry) or students who plan to seek careers in the chemical industry. Students are required to take several lecture and lab courses in all of these core areas and are also required to complete four credits (two semesters) of undergraduate research.

The program leading to Honors in chemistry is available to qualified students.

In addition, there is a five-year joint degree program with the College of Engineering that leads to a B.S.Chem. and a Bachelor of Science in Engineering (Chemical Engineering).

It is strongly recommended that students who are thinking of degrees in chemistry should arrange an appointment with a chemistry advisor via the online appointment scheduling system as soon as possible, preferably before the end of their freshman year but certainly before the end of their sophomore year.

Degree Program

A minimum program leading to this degree is given in the following list of courses and requirements.

Exclusions: Students who elect the B.S.Chem. may not elect the following majors: Interdisciplinary Chemical Sciences or Chemical Science. They may also not elect any of the Chemistry minors.

A Bachelor of Science in Chemistry degree requires competency in each major area of knowledge and a deep understanding of chemistry. Each student is required also to achieve competency in the use of the English language, to acquire second-year college-level proficiency in a language other than English, to receive credit for an approved course addressing questions on race and ethnicity, and to fulfill the quantitative reasoning requirement. The B.S.Chem. degree requires 60 credits of approved courses in the physical and natural sciences and/or mathematics.

Chemistry Degree Credit and GPA Requirements

A student must complete a minimum of 124 credits with a cumulative GPA of 2.0 (C) or better. This includes chemistry courses, mathematics and physics prerequisites, and advanced electives that are part of the degree program.

Special Departmental Policies (effective Fall 2015)

The department strongly recommends that a student earn a grade of at least C– in all CHEM courses and mathematics, physics, and biology courses that are prerequisite for subsequent elections. A major program grade point average of at least 2.0 is required; this includes chemistry courses, mathematics, physics, and biology prerequisites, and advanced electives that are part of a major plan. Prerequisites must be taken for a grade. Students must request any change in a chemistry course grade within the first 15 University business days of the first full term following the term in which the disputed grade was issued.

Prerequisites to the Program (*Must be taken for a grade*)

- CHEM courses through 215, 216, CHEM 241/242, and CHEM 260 or 370
- PHYSICS [135/136 or 140/141] and [235/236 or 240/241]
- MATH 115 (or 120), and MATH 116 (or 121)
- CHEM 262 (or MATH 215, and MATH 216 or 217)

PHYSICS 240 or 235 and MATH 215 are prerequisites for CHEM 461, and students should, whenever possible, complete both of these before their junior year.

Chemistry Degree Course Requirements

CHEM 302 or 303, 402, 447, 461, 462, 463, 482, and 483, plus four credits of CHEM 399 taken over at least two terms, as well as one advanced lecture course in chemistry.

Honors Plan in Chemistry

The B.S.Chem. degree is the basis of the Honors degree in chemistry. Maintenance of a satisfactory GPA (3.4) in the courses required for the degree program, including prerequisites, and satisfactory completion of an Honors thesis (CHEM 499) based on the research done in CHEM 399 are required for Honors. All students, whatever their program, who are interested in an Honors degree should see the chemistry Honors advisor (Room 1500 Chemistry) for approval for participation in the Honors Program in chemistry.

Bachelor in General Studies (B.G.S.)

Students seeking a vigorously student-centered curriculum might consider the Bachelor in General Studies (B.G.S.), a highly interdisciplinary degree that allows students to combine and explore multiple subjects. Students who choose to pursue a B.G.S. work closely with their Newnan Advising Center advisor to create a course plan that feeds their curiosity while meeting the College of LSA's graduation requirements. Learn more about the program and the specific requirements here.

Requirements needed to complete the Bachelor in General Studies

- 60 Upper-Level Credit Requirement
- First-Year Writing Requirement
- Upper-Level Writing Requirement
- Race & Ethnicity Requirement
- Quantitative Reasoning Requirement
- Non-LSA Coursework

Multiple Dependent Degree Program (MDDP) & Concurrent Undergraduate-Graduate Studies (CUGS) Program

Multiple Dependent Degree Program (MDDP) / Joint Degree / Dual Degree

Undergraduate students may earn two degrees: one from LSA and the other from another school or college on the U-M Ann Arbor campus. Any undergraduate student who wishes to consider this possibility should carefully review the requirements and policies of both schools/colleges and plan a program which meets the criteria for both. Admission to some of these programs is highly competitive, and many of these programs require specific courses for admission. It is important for students to identify program interests early in their undergraduate careers and consult with academic advisors for more information.

Dual degree programs between LSA and the following schools/colleges have been approved: **Architecture, Art & Design, Business, Education, Engineering, Information, Kinesiology, Music, Theatre & Dance, and Public Health.** Dual degrees with Dental Hygiene or Nursing are technically allowed but are not typically feasible. Dual degrees with schools/colleges not on this list are not allowed.

Requirements

Students who wish to consider the possibility of earning dual degrees should read the requirements and policies of both schools carefully to plan a program which meets the criteria listed below. A dual degree student must:

1. Complete one of the degree programs in the College of Literature, Science, and the Arts;
2. Complete a degree program in another approved school/college;
3. Complete a minimum of 150 credits (128 credits for dual degree with Engineering), of which no less than 100 credits must be LSA credits (90 LSA credits for dual degree with Engineering).
4. Apply to the Multiple Dependent Degree Program by completing the Undergraduate Dual Degree Approval Form upon consultation of both schools/colleges.

Administrative Regulations

1. A student must be admitted to or be admissible to both schools/colleges.
2. A student must be eligible to declare their intended LSA major at the time of application
3. The student may register in only one school/college at a time.
4. When applying to the MDDP, the student must choose which school/college the student wants to designate as their home unit/home school. The student is governed by the rules of that unit and the home unit maintains the primary academic record. The student may change their home unit designation only one time in their time as an undergraduate student.
5. Prior to applying to the MDDP, a student must have completed a minimum of 30 credits on the Ann Arbor campus, and the cumulative grade point average (GPA) for work completed on the Ann Arbor campus must be 3.0 or better. (Engineering allows for a 2.7 or higher cumulative GPA; however, LSA applicants may require a higher GPA as determined by their **planned Engineering Major**). If a student has transferred into UM, they must meet the same GPA requirements, but they can apply after completing one term at UM. Any exception

to these requirements must be approved by the LSA Academic Standards Board. The other school/college may require additional evidence of ability to complete its program such as submission of a portfolio, completion of an audition, completion of specific courses, etc.

6. To apply, a student must complete **the application** and submit it to the appropriate LSA advisor (if unsure, contact Newnan Advising Center: 734-764-0332). Students must have the form completed and submitted by the third-week deadline of a fall or winter term, or the second-week deadline of a spring or summer term, if the student wants the MDDP to be active for that term. Students must be enrolled in the first term of being active in MDDP.
7. Neither school/college is obliged to approve a program simply because a student will plan 150 total credits which meet degree requirements of both schools. Some dual programs are not permitted (ex: CS-Engineering & CS-LSA or DS-LSA).
8. Withdrawal from the MDDP is possible at any time. The student must initiate a request through their home unit.
9. Upon completion of the requirements of both colleges, students are granted concurrent degrees. The student must earn both degrees in the same degree period. If any degree requirement for either degree is lacking, neither degree will be awarded. The student must submit a separate Graduation Application through Wolverine Access to each school/college along with any other necessary documents. (In LSA, a Major Release/Senior Audit Form is required.)
10. Students must maintain good academic standing in both colleges to continue in the MDDP.

Additional information can be found on the **Undergraduate Dual Degree Approval Form**.

The **Concurrent Undergraduate-Graduate Studies (CUGS) Program** enables a few students each year to enroll simultaneously in LSA and the Rackham Graduate School and to apply a maximum of 15 credits toward both an undergraduate degree and a graduate degree. Additional information can be found on the **Accelerated Master's (Undergraduate-Graduate) Degree Election Form**.

Joint Degree in Liberal Arts and B.S. in Engineering

This program is designed to enable students to develop a course of study that offers broader academic opportunities than those offered by either college. The program is intended for students who wish to develop a depth of understanding in the technical studies associated with the College of Engineering and in the physical and natural sciences, humanities, and social sciences in LSA. This integration of technical studies with the liberal arts is the primary strength of the program. It is open to students enrolled in Engineering or LSA and leads to concurrent bachelor's degrees from both colleges. It is intended primarily for students who enroll as first-year students in one of the two colleges.

The variety of courses that students may elect in the joint program makes it impractical to list specific requirements. Instead, each student should consult faculty members and academic advisors in each college to develop the best plan of study. Primary responsibility for planning the academic program and continuing contact with academic advisors in the two fields is assumed by the student, who also is responsible for becoming familiar with the academic policies and procedures of both colleges and the academic requirements and courses in both fields of the

major.

It is usually possible for students carrying 16 credits a term to meet all requirements in 10 or 11 terms.

Administrative Regulations

1. Students may initially enroll either in the College of Engineering or LSA.
2. To be qualified for admission to the joint degree program, students are usually expected to have completed 30 credits of courses with an overall grade point average of at least 2.7. Entry of LSA students to some programs in Engineering may require a substantially higher grade point average.
3. Students considering this program should discuss their plans with the program advisor associated with the college in which they are enrolled. Usually, this contact should be made early in their sophomore year.
4. Students must complete an application form indicating their program in each college. Applications are available from the Academic Advising Center, 1255 Angell Hall, (734.764.0332), or the College of Engineering's Registrar's Office, College of Engineering, 145A Chrysler Center, (734.647.7117).
5. Once admitted to the program, each student continues to register in the college of initial enrollment. That college maintains the primary academic record.
6. Students must consult the academic advisor for each major and secure approval for their class schedule according to the academic policies and procedures of each college.
7. Students must maintain good academic standing in both colleges to continue in the joint degree program.
8. Students in good academic standing who wish to withdraw from the program may complete a degree in either college. Students not in good academic standing are subject to the academic discipline of that college.
9. Upon completion of the requirements of both colleges, students are granted concurrent degrees. By the beginning of the term in which graduation is anticipated, a diploma application must be filed with each college, and the academic advisor for each major (specialization) must provide appropriate notification that departmental requirements are satisfied.

Joint Degree Program Structure

Candidates for the combined Bachelor of Science in Engineering (B.S.E.) and liberal arts degree (A.B., B.S., B.S.Chem, or B.G.S.) must:

1. complete one of the degree programs in the College of Engineering;
2. complete a minimum of 90 credits of LSA courses;
3. have a cumulative grade point average of at least 2.0.

In addition, candidates for the joint degree in the Engineering Bachelor of Science in Engineering (B.S.E.) and the LSA Bachelor of Arts (A.B.), Bachelor of Science (B.S.), or Bachelor of Science in Chemistry (B.S.Chem) must complete the LSA degree requirements (the First-Year Writing Requirement, the Upper-Level Writing Requirement, the Race & Ethnicity Requirement, the Quantitative Reasoning Requirement, the Language Requirement, and an approved area distribution plan), and an approved LSA plan for the major.

Candidates for the joint Bachelor of Science in Engineering (B.S.E.) and Bachelor in General Studies (B.G.S.) degree must complete the LS&A First-Year Writing Requirement, the Upper-Level Writing Requirement, the Race & Ethnicity Requirement, the Quantitative Reasoning Requirement, and a minimum 40 credits of LSA courses at the 300 level or above with a GPA of at least 2.0. No more than 15 of these credits may be elected from any one subject.

Engineering: Bachelor of Science in Cell and Molecular Biology and Master of Science in Biomedical Engineering

The Department of Molecular, Cellular, and Developmental Biology (MCDB) in the College of LSA and the Department of Biomedical Engineering in the College of Engineering administer a five-year program awarding a concurrent B.S. degree in Cell and Molecular Biology from the College of LSA and an M.S. in Biomedical Engineering from the Rackham Graduate School upon completion of all program requirements. A student will apply to both the Department of Molecular, Cellular, and Developmental Biology and the Department of Biomedical Engineering for entrance. A student will be admitted into the program only after completing the first year of the concentration prerequisites (BIOL 162, CHEM 210/211, PHYSICS 135/136 or 140/141, MATH 115 and 116) with a GPA of 3.2 or higher.

Upon acceptance into the program, each student will be assigned two advisors, one in MCDB and one in biomedical engineering. Student course selections must be approved by both advisors each term.

Students are typically admitted into the M.S. phase at the end of their third year when they achieve senior standing. Students must have completed all concentration prerequisites and be judged by both academic advisors as making adequate progress toward the B.S. At this time, students must formally apply to the Rackham Graduate School for the M.S. program in biomedical engineering. All students with a 3.2 GPA or higher in the B.S. concentration phase will automatically be admitted into the M.S. phase. Other students who have reached senior standing with a 3.2 GPA or higher and have fulfilled all concentration prerequisites, but did not previously apply or were not admitted in the B.S. phase, can also apply for admittance into the M.S. phase. Students with senior standing will have two years to mix undergraduate and graduate courses, simultaneously fulfilling the requirement for both the B.S. and M.S. degrees. Students will be charged graduate tuition for only one academic year.

Second Degree

Individuals with a bachelor's degree who want to earn a second degree must obtain permission from the Office of Undergraduate Admissions. Normally, at least two calendar years must transpire between the awarding of the first baccalaureate degree and the beginning of the second baccalaureate degree program. Applicants must pursue an academic program significantly different from that of the first baccalaureate degree. Except in the case of joint degrees, the

College does not award concurrent bachelor's degrees. For graduates of schools and colleges on the Ann Arbor campus, the two baccalaureate degrees should be different (for example, not two Bachelor of Arts or two Bachelor of Science degrees). The second degree program cannot be a B.G.S. degree, and students whose first degree is the B.G.S. degree are ineligible for a second bachelor's degree. Applicants who already have an LSA degree must earn at least 30 credits in residence in LSA beyond the credits required for the first degree, with at least 15 of these credits in the new field of the major. These same requirements apply to graduates of another Ann Arbor unit who are seeking to complete a second UM degree through LSA. The second program must include a minimum of 100 LSA credits. To be considered for admission to a second baccalaureate degree program, all applicants who have a baccalaureate degree from the Ann Arbor campus of the University of Michigan must have a 2.0 minimum grade point average. Credit cannot be transferred from another school if that credit is simultaneously being counted toward another baccalaureate or graduate or professional degree. "**Special Joint Degree Programs**" are exceptions to this policy.

Applicants whose first degree comes from any other institution (including U-M Dearborn and U-M Flint) will be required to complete at least 60 credits in residence at the Ann Arbor campus. Students must be registered in LSA for at least 30 credits beyond the credits required for the first degree. The second degree program must include a minimum of 100 LSA credits. To be considered for admission to a second baccalaureate degree program, applicants must have the same minimum grade point average as the College requires for students who transfer from other institutions.

Non-Degree Status

Non-degree status offers the opportunity to elect courses in the College to meet personal objectives without enrollment in a degree program. Consideration for admission as a non-degree student is determined by (1) certified good academic standing at another college or university and eligibility to return or (2) successful completion of a college degree. Interested students should submit the *Non-Degree LSA Application* which is available online from the Office of Undergraduate Admissions website. Applicants are asked to submit an official transcript of their college work, or official documentation confirming their college degree unless the degree was conferred by UM—Ann Arbor. High school graduates not entering U-M in the fall as freshmen may be considered for non-degree admission for summer term only.

A student who has a degree from any unit of the University of Michigan is eligible to apply for non-degree status. Non-degree status is not intended to accommodate qualified degree applicants who apply after the deadline or after enrollment limits for a particular term have been reached. Nor is non-degree status intended to accommodate high school students who wish to elect college-level courses unless they meet the conditions for dual enrollment as defined by LSA and implemented by the Office of Undergraduate Admissions.

Students dismissed from the College for unsatisfactory academic performance may not enroll as non-degree students. No student having an academic stop in any unit of the University as a degree-seeking student may be admitted to non-degree status without receiving special permission from the Office of Undergraduate Admissions

The Office of Undergraduate Admissions grants admission as applications are received. *If non-degree status is granted, the student may register for courses only on or after the first day of classes of the term for which admission has been granted.* This is to ensure that degree-seeking students have first priority in electing courses. Non-degree students may register for any course as long as it is open or an *Electronic Permission* can be obtained.

The Registrar's Office maintains an official transcript of all courses elected by each non-degree student. Non-degree students are subject to the same policies that apply to degree-seeking students. They are expected to maintain a minimum 2.0 grade point average to be eligible for continued enrollment.

If non-degree students plan to seek a degree from the College, they should discuss their interests with an admissions counselor and an academic advisor. Non-degree status is not changed to degree status except by formal application through the Office of Undergraduate Admissions. Successful completion of work elected as a non-degree student is considered but does not ensure admission as a degree student. If admission as a degree student is granted, credit earned during enrollment as a non-degree student may be applied toward a degree. It is considered in-residence credit and earns honor points.

Non-degree students who would like to discuss their academic plans are encouraged to contact the **Newnan Academic Advising Center**.

LSA Requirements

This document is an unofficial representation of the information available on the LSA Website

Rules for Degree Requirements

As a student, you are responsible for knowing and meeting the requirements for you to get your degree. Along these lines, there are two important things to keep in mind:

- You can comply with either the degree requirements that were in effect in your first term of enrollment or with the requirements in effect at the time of your graduation. If you have questions, you can always check with your general advisor.
- Requirements for majors and minors are those in effect at the time that you declared your major(s) or minor(s).

Use My LSA Audit Checklist to check your progress and see if you are on track to graduate.

Credit Requirements

120 Total Credit Requirement

The Bachelor of Arts, Bachelor of Science, and Bachelor in General Studies degrees require students to complete a minimum of 120 credits (124 for B.S.Chem.).

100 LSA Credit Requirement

LSA students must complete a minimum of 100 credits of LSA courses, thus allowing 20 credits of non-LSA coursework in the 120 required for the degree.

90 Graded Credit Requirement

LSA students must complete 90 graded credits for an LSA degree. More information on non-graded credits can be found on the non-graded courses page.

Residence Requirements

There are three residence requirements:

- At least 60 of the 120 credits required for a degree must be earned in residence. Residence credit is granted for courses elected on the Ann Arbor campus or at off-campus sites directed by Ann Arbor faculty present on the site. Credit earned through Advanced Placement, credit by examination, correspondence courses, transfer credit from other institutions, or off-campus independent study counts as out-of-residence credit.
- At least 30 of the last 60 credits for the degree must be earned in residence.
- Cross-campus transfer students may receive credit for a maximum of 90 credits from a previous college or school on the Ann Arbor campus. No more than 60 of these 90 credits may have been

completed at other institutions. LSA residency requires that a student earn 30 credits in the College.

For more information please see the Transfer Information & Residence Policy page.

60 Credits Outside Major Dept.

Students electing an area, interdepartmental, or special concentration must earn at least 60 credits outside of their major department. More information on this policy can be found on the **60 Credits in One Department** page.

90 Credits of Regular Courses (Not Experiential, Not Independent)

A combined total of 30 credits of Experiential and Directed Reading / Independent Study courses may be counted in the 120 credits required for a degree.

Grade Point Average

To qualify for a degree from the College, a student must complete a minimum of 120 credits with a cumulative grade point average (GPA) of 2.0 (C). The overall GPA of courses included in the field of the major (see Policies for the Major) for an A.B. or B.S. degree or counted toward the 60 credits of upper-level courses required for a B.G.S. degree must be at least 2.0.

Term and Cumulative Grade Point Averages

The term grade point average is determined by dividing the total number of Michigan Semester Hours (MSH) elected during a term into the total number of Michigan Honor Points (MHP) earned during the same term. The cumulative grade point average is determined by dividing the total number of MSH into the total number of MHP earned. Notations of Y, I, NR, and NG are not initially calculated into the term or cumulative grade point averages. Notations of I, NR, and NG, if unresolved by the end of the fourth week of the next fall or winter term in residence or by an approved extension deadline, lapse to E or ED and are computed into both the term and cumulative grade point averages if the course was a graded election.

Minimum Term and Cumulative Grade Point Averages Required

To be eligible for continued enrollment, a student must earn at least a 2.0 term grade point average and a 2.0 cumulative grade point average. If a student fails to accomplish this, the "honor point deficit" can be determined by multiplying the Michigan Semester Hours (MSH) elected by 2.0 and subtracting the total number of Michigan Honor Points (MHP) earned. Only honor points earned in courses elected at the University of Michigan (Ann Arbor, Dearborn, or Flint campuses) may affect the grade point average.

Computing Your Grade Point Average

Graduation requirements include that a student have a minimum 2.0 overall grade point average (GPA) and a minimum 2.0 average in their major(s) and in any minors. For B.G.S. students, a 2.0 average must be maintained in the upper-level courses required for the degree. Grades of "C+" and higher add to the GPA; grades of "C" are neutral; and grades of "C-" and lower subtract from the GPA. Only graded courses (as opposed to courses taken pass/fail, credit/no

credit, etc.) are included in this calculation.

A GPA is calculated by dividing the total number of Michigan Semester Hours (MSH) elected during a term into the total number of Michigan Honor Points (MHP) earned during the same term. The cumulative grade point average is determined by dividing the total number of MSH into the total number of MHP. Notations of Pass (P), Fail (F), Credit (CR), No Credit (NC), Satisfactory (S), or Not Satisfactory (NS) are not included in the GPA. Notations for Incomplete (I), No Report (NR, no grade submitted by the instructor), or Unofficial Drop (ED-student is listed on the grade sheet but has not been in class), which indicate that a course has not been finished and graded on time for some reason, initially are not calculated into the GPA. If these courses are not resolved by the end of the fourth week of the next fall or winter term in residence or by a new deadline established by a formal time extension, then these grades are calculated as an "E," if the course had been elected for a grade. A notation of a course that extends over two terms (Y) is not calculated until the course is actually finished.

On an LSA transcript, each term's course information is formatted to indicate MSH, Credits Toward Program (CTP), Final Grade, and MHP.

Here is an example:

Course	Title	MSH	Grade	MHP
ENGLISH 125	Intro Comp	4	B+	13.2
HISTORY 261	US 1865-Present	4	P	0.0
MATH 115	Analy Geom-Calc I	4	C+	9.2
PSYCH 111	Intro Psych	4	A-	14.8
		MSH 12	CTP 16	MHP 37.2

In this case, the MSH is 12 because only 12 credits were taken for a grade. The CTP, Credits Toward Program, remains at 16 since the student passed all four classes. The MHP changes to 37.2, reflecting the fact that pass/fail credits do not generate honor points. The term GPA is 3.1 for this particular example.

Here's a full list of all grades and their numerical equivalents:

Letter Grade	Honor Points
A+	4.0
A	4.0
A-	3.7
B+	3.3
B	3.0
B-	2.7
C+	2.3
C	2.0
C-	1.7
D+	1.3
D	1.0
D-	0.7
E	0.0
Non-graded courses <i>e.g.</i> P, F, CR, NC	0.0

How to Compute an Honor Point Deficit

A deficit means that a student's grade point average (GPA) in their major, minor, or cumulative average has fallen below the required minimum of 2.0. The deficit is the number of hours of "B" grades necessary in the future to raise the average to the required 2.0 level. Any grade of "C+" or better reduces an honor point deficit; any grade of "C-" or lower adds to the honor point deficit.

On an LSA transcript, each term's course information is formatted to indicate Michigan Semester Hours (MSH), Credits Toward Program (CTP), Final Grade, and Michigan Honor Points (MHP).

Here is an example:

Course	Title	MSH	Grade	MHP
ENGLISH 125	Intro Comp	4	C-	6.8
HISTORY 261	US 1865-Present	4	B	12.0
MATH 115	Anal Geom-Calc-I	4	D	4.0
PSYCH 111	Intro to Psych	4	D-	2.8
		MSH 16	CTP 16	MHP 25.6

MSH lists the number of credits attempted during the term; MHP indicates the numerical value of the grade received. CTP indicates the number of credits earned toward the LSA degree. In our example, since the student technically "passed" everything, the MSH and the CTP are the same.

The GPA is figured by dividing Michigan Semester Hours (MSH) into Michigan Honor Points (MHP). MSH includes all the graded credit hours elected within U-M and recognized by LSA. MHP includes all the honor points earned within U-M in courses recognized by LSA as counting toward graduation. The honor point deficit is figured by multiplying MSH by 2 and then subtracting the listed MHP. Deficit = (2 X MSH) - MHP.

Multiplying MSH by 2 gives the number of honor points necessary to have a 2.0 average on that number of MSH. In the example above, the honor point deficit is 6.4 (2 times 16 minus 25.6 equals 6.4). In order for this average to rise to 2.0, the student would need 6.4 credit hours of "B" in the future, with all other grades being no lower than "C."

Below is the full list of all grades and their numerical equivalent:

Letter Grade	Honor Points
A+	4.0
A	4.0
A-	3.7
B+	3.3
B	3.0
B-	2.7
C+	2.3
C	2.0
C-	1.7
D+	1.3
D	1.0
D-	0.7
E	0.0

Why Honor Points Matter

Students are placed on academic probation if either the term grade point average or the cumulative grade point average falls below 2.0. If your cumulative grade point average falls below 2.0, you have an honor point deficit.

Calculating Honor Points

Every grade has a value. Michigan Honor Points (MHP) are calculated by multiplying the number of Michigan Semester Hours (MSH) for the class by the value of the grade. Michigan Semester Hours are the credits earned in graded classes. Classes that are elected pass/fail, credit/no-credits, or satisfactory/non-satisfactory only earn Credits Toward Program (CTP) and are not part of the grade point average.

Fall 2004	Grade	CTP	MSH	MHP
AMCULT 100	C-	3	3	5.1
PSYCH 111	B	4	4	12.0
PSYCH 211	CR	2	0	0.0
SOC 101	D+	4	4	5.2
SPANISH 103	E	0	4	0.0
		13	15	22.3

GPA = 1.486

Honor Point Deficit = 7.7

Term and Cumulative Grade Point Averages

The term grade point average is determined by dividing the total number of Michigan Semester Hours (MSH) elected during a term into the total number of Michigan Honor Points (MHP) earned during the same term.

$$\text{MHP/MSH}=\text{GPA or } 22.3/15=1.486$$

The cumulative grade point average is determined by dividing the total number of MSH into the total number of MHP earned.

Note: Notations of Y, I, NR, NG, and ## are not initially calculated into the term or cumulative grade point averages. Notations of I, NR, NG, and ##, if unresolved by the end of the fourth week of the next fall or winter term in residence or by an approved extension deadline, lapse to E or ED and are then computed into both the term and cumulative grade point averages if the course was a graded election. Only honor points earned in courses elected at the University of Michigan (Ann Arbor, Dearborn, or Flint campuses) may affect the grade point average.

Calculating the Honor Point Deficit

The term honor point deficit can be determined by multiplying the total MSH by 2.0 and subtracting the number of MHP earned.

$$(\text{MSH} \times 2)-\text{MHP}=\text{HPD or } (15 \times 2)-22.3=7.7$$

The cumulative honor point deficit can be determined by multiplying the total MSH elected by 2.0 and subtracting the total number of MHP earned.

The cumulative honor point deficit will determine how badly your grade point average has been affected. It will also tell you how many credits of "B" grades you will have to earn (with no other grades falling below a "C") in order to raise your cumulative grade point average to the 2.0

minimum needed to be in good standing and to graduate. You also need at least a 2.0 in your major grade point average to graduate.

Cumulative honor point deficits can lead to suspension or dismissal from the College. Cumulative honor point deficits may also present challenges to completing major requirements

Things to Consider

In preparation of your required meeting with an Academic Standards Board member, take a look at your academic report on Wolverine Access and answer the following questions. Be prepared to discuss your answers during your appointment.

1. What is your term honor point deficit?
2. If your cumulative grade point average is below 2.0, what is your cumulative honor point deficit?
3. What is your major grade point average?
4. Do you have a deficit?
 - i. If yes, what is the size of the deficit?
 - ii. If you have either a cumulative or major honor point deficit, can you see any patterns of classes or life events that have contributed to the deficit?

First-Year Writing Requirement

The goal of the First-Year Writing Requirement (FYWR) is to prepare students to write in diverse academic contexts. As a broad preparation for the range of writing tasks students will encounter at the University of Michigan and beyond, FYWR courses emphasize evidenced, academic writing in a variety of genres and rhetorical situations. A FYWR course is foundational for students to master the kind of analysis and argumentation found in sophisticated academic writing. Information about what to expect in first-year writing courses can be found on the Sweetland Center for Writing's **First-Year Writing Requirement page**.

Students should complete their first-year writing course in their first three terms and must earn a C- or higher to meet the requirement. This requirement should be satisfied before attempting a course to meet the Upper-Level Writing Requirement. Advanced Placement (AP) credit does not fulfill the FYWR.

FYWR courses offered for a particular term can be found in the LSA Course Guide by using the “**Skills Req**” drop-down menu and selecting “**First-Year Writing (FYWR)**.”

Transfer students who have completed writing courses at another college or university may be able to use those courses to satisfy the FYWR. Detailed information about the approved and non-approved courses is available through the Sweetland Center for Writing's First-Year Writing Requirement page.

Students who seek a more individualized and gradual introduction to college writing may choose to take WRITING 100: Transition to College Writing and/or WRITING 120: College Writing for Multilingual Writers through the Sweetland Center for Writing before a First-Year Writing

Requirement course.

WRITING 100 is a 3-credit ungraded course designed for students who:

- learn best with one-to-one instructor support;
- seek more experience drafting and revising academic essays;
- prefer a more gradual introduction to writing longer academic essays on a variety of topics; and/or
- would benefit from an additional term to gain confidence in their writing and reading skills at the college level.

WRITING 120 is a 3-credit graded course designed for students who:

- feel most comfortable with academic writing in a language other than English and/or
- want an opportunity to work closely with an instructor to become better prepared for writing in English.

First-Year Writing and UWrite

UWrite is an online self-placement tool that guides students to reflect on their writing experiences and learning preferences and helps them to select First-Year Writing Requirement courses that fit their interests and needs. UWrite appears in the task list students receive before Orientation.

Upper-Level Writing Requirement

The goal of the Upper-Level Writing Requirement (ULWR) is to teach students to recognize and practice the range of writing activities and forms typical of academic and professional contexts.

Students should satisfy the First-Year Writing Requirement (FYWR) before electing one of the courses approved to satisfy the ULWR. A designated course completed with a minimum C– grade is required in order to satisfy the ULWR.

Overall ULWR learning goals for students are as follows:

- build on skills and strategies developed in first-year writing courses;
- produce complex, analytical evidence-based arguments that address specific audiences;
- refine their ability to write effectively both within and beyond specific disciplines;
- use feedback to improve their writing through revision; and
- demonstrate familiarity with the genres and conventions characteristic of effective writing.

Over the course of the term, students will complete several writing assignments that are related to course content and intended to help students practice the rhetoric of their specific discipline. Possible assignments may include journals, research papers, critical analyses, and/or lab reports. Students will receive feedback on their writing from their ULWR instructor and are expected to revise much of their work throughout the term.

Upper-Level Writing Requirement courses offered for a particular term can be found in the LSA Course Guide by using the “Skills Req” drop-down menu and selecting “Upper-Level Writing (ULWR)”. A course approved to meet the requirement one term is not necessarily approved to

meet the requirement in subsequent terms.

Race and Ethnicity (R&E) Requirement

At some point before graduation, students must receive credit for one course of at least three credits chosen from a list of Race and Ethnicity (R&E) courses offered each term in the LSA Course Guide. Credits transferred from another college or university do not meet the R&E Requirement except by successful petition to the Academic Standards Board.

These courses address issues arising from racial or ethnic intolerance and meet the following criteria:

Required content. All courses satisfying the requirement must provide discussion concerning:

- the meaning of race, ethnicity, and racism;
- racial and ethnic intolerance and resulting inequality as it occurs in the United States or elsewhere;
- comparisons of discrimination based on race, ethnicity, religion, social class, or gender.

Required focus. Every course satisfying the requirement must devote substantial, but not necessarily exclusive, attention to the required content. Although it is hoped that many of these courses will focus on the United States, it is not required that they do so. Courses that deal with these issues in other societies, or that study them comparatively, may also meet the requirement.

Credits used to satisfy the R&E requirement also may be used to satisfy other College requirements.

Quantitative Reasoning Requirement

The goal of the Quantitative Reasoning (QR) Requirement is to ensure that every graduate of the College achieves a certain level of proficiency in using and analyzing quantitative information.

Quantitative reasoning is the methodology used to analyze quantitative information to make decisions, judgments, and predictions. It involves defining a problem by means of numerical or geometrical representations of real-world phenomena, determining how to solve it, deducing consequences, formulating alternatives, and predicting outcomes. QR courses may come from a wide range of disciplines representing the natural and social sciences.

Students may fulfill this requirement by:

- passing one course of three or more credits designated for full QR credit (QR/1); or
- passing two courses (at least one of which must be of three or more credits) designated for half QR credit (QR/2).

Advanced Placement (AP) credit may not be used to meet the QR Requirement, however in some cases, A-level or IB credit may be used to meet the QR Requirement.

Courses transferred from another college or university do not generally satisfy the QR Requirement, except in the following circumstances:

- students who transfer in **all** of the required prerequisites courses for science, math, or computerscience majors, as so designated by the major advisor
- students who receive transfer credit of at least three credits for PHYSICS 125, 126, 140, or 240 or any class that transfers as STATS 250 or Statistics Departmental
- students who receive transfer credit of at least three credits for a course that is directly equivalent to a course offered at the University of Michigan already meeting the Quantitative Reasoning requirement

Courses used to satisfy the QR requirement also may satisfy other College requirements.

Language Requirement

LSA's language requirement seeks to prepare students for a world that has been profoundly transformed by the forces of globalization. Language shapes both how we understand and how we negotiate our world; learning a second language provides both a deep awareness of linguistic and cultural differences and a means to bridge them. Informed respect for other cultures, tolerance, cosmopolitanism, self-awareness, and flexibility are the hallmarks of a liberal arts education, and the study of foreign languages fosters precisely these capacities.

A student whose first language is not English and who attended a high school where English was not the language of instruction is considered to have met the requirement.

Language Requirement Policies

1. **Students must earn a grade of C- or better in the prerequisite language course to proceed to the subsequent course.** Any exception to this rule must be granted by a designated faculty representative in the department.
2. **The final course in an elementary language sequence used to satisfy the Language Requirement must be elected on a graded basis.**
3. LSA students cannot satisfy the Language Requirement by electing **out-of-residence credit** after they have begun degree enrollment in LSA. Language departments rarely grant exceptions to this policy. Students pursuing an exception to this policy must first receive approval from the language department before electing an out-of-residence language course.
4. No more than 60 credits in one language (other than English) may be counted in the 120 required for a degree. However, the 60 credit limit on courses elected in one major may be exceeded when the excess credits have been used to meet the Language Requirement.

Fourth-Term Proficiency and Language Requirement Course List

Fourth-term proficiency in a language other than English is required and may be met in any of the following ways:

1. Certified proficiency on a University of Michigan reading and/or listening test. Students with previous experience in the language they plan to use to meet the language requirement must take a language placement test. A student may not elect to enroll for credit in a language course below this placement level without departmental permission.

2. Credit for a University of Michigan fourth-term language course listed below with a grade of C- or better.

- African Languages (AAS 226)
Akan/Twi, Bambara/Bamana, Wolof, Zulu/IsiZulu
- American Sign Language (LING 251 or RCCORE 204 or RCASL 202)
- Arabic
 - Classical (ARABIC 222)
 - Modern (ARABIC 202 or 203)
- Armenian
 - Eastern (ARMENIAN 206)
 - Western (ARMENIAN 202)
- Bosnian, Croatian, and Serbian (BCS 232 or 225)
- Central Asian Languages (MELANG 506)
Uzbek or Uyghur
- Chinese (ASIANLAN 202, 203, or 204)
- Czech (CZECH 242)
- Dutch (DUTCH 232)
- Filipino (ASIANLAN 212)
- French (FRENCH 230 or 232, or RCLANG 290)
- German (GERMAN 230 or 232 or 291, or RCLANG 291)
- Greek
 - Classical (GREEK 301 and 302, or 405)
 - Biblical (GREEK 307 and 308, or ACABS 307 and 308)
 - Modern (MODGREEK 202)
- Hebrew
 - Classical (NESLANG 202 [or ACABS 202])
 - Modern (HEBREW 202 or 203 [or HJCS 202 or 210])
- Hindi (ASIANLAN 216 or 217)
- Indonesian (ASIANLAN 222)
- Italian (ITALIAN 232 or 230)
- Japanese (ASIANLAN 226 or 227 or 229, or RCLANG 296)
- Korean (ASIANLAN 236 or 237 or 238)
- Latin (LATIN 232 or 233 or 295, or RCLANG 295)
- Middle Egyptian (NESLANG 531: Advanced Middle Egyptian II)
- Ojibwe (AMCULT 323)
- Persian (PERSIAN 202 [or AAPTIS 242] or AAPTIS 243)
- Polish (POLISH 222)
- Portuguese (PORTUG 232 or 230)
- Quechua (LACS 474)
- Punjabi (ASIANLAN 246)
- Russian (RUSSIAN 202 or 203 or 223 or 225 or 325, or RCLANG 293)
- Sanskrit (ASIANLAN 252)
- Spanish (SPANISH 230 or 232, or RCLANG 294)
- Swahili (AAS 216)
- Swedish (SCAND 234)
- Tamil (ASIANLAN 256)
- Thai (ASIANLAN 262)
- Tibetan

- Classical (ASIANLAN 468)
 - Modern (ASIANLAN 266)
 - Turkish (TURKISH 202 or 203 [or AAPTIS 252 or 255])
 - Ukrainian (UKR 252 or 203)
 - Urdu (ASIANLAN 272)
 - Vietnamese (ASIANLAN 276)
 - Yiddish (YIDDISH 202 or JUDAIC 202 or GERMAN 228)
 - Yoruba (AAS 226)
3. Students who wish to meet the requirement with proficiency in a language not listed in the table above should read the **Languages not taught at the University of Michigan** website and complete the form on the webpage.
 4. Credit for a University of Michigan language course that presumes a fourth-term proficiency in a language (except for 305 and/or 306 in FRENCH, GERMAN, ITALIAN, LATIN, MODGREEK and SCAND; 405 and/or 406 in GERMAN and SCAND; and SPANISH 308.

Area Distribution Requirement

LSA seeks to instill an understanding and an appreciation of all major areas of learning. Students are not expected to master all areas in detail, but they should develop a coherent view of essential concepts, structures, and intellectual methods that typify these disciplines.

Courses offered by the academic departments and programs of the College are divided into five area categories:

- the Natural Sciences
- the Social Sciences
- the Humanities
- Mathematics and Symbolic Analysis
- Creative Expression

Each of these divisions represents a different perspective on human knowledge and learning; some departments and programs overlap these divisions while others may stand outside them.

Distribution Requirement

All candidates for the Bachelor of Arts and Bachelor of Science degrees from the College must fulfill the 30-credit Distribution Requirement.

This broad intellectual experience, which forms an essential part of a liberal arts education, is to be achieved in the following way:

1. Students must complete seven credits in each of the following three areas: Natural Science (NS), Social Science (SS), and Humanities (HU), for a total of 21 credits.
2. Students must also complete three additional credits in three of the following five areas:

(NS), (SS), (HU), Mathematical and Symbolic Analysis (MSA), and Creative Expression (CE), for a total of nine credits. Credits in courses designated Interdisciplinary (ID) may be used to satisfy up to nine credits of this part of the requirement.

General Policies for Area Distribution Plans

An area distribution plan **may** include:

1. prerequisites to a major elected outside the department of the major;
2. courses elected pass/fail, credit/no credit, or by any other non-graded pattern;
3. courses elected to satisfy *one* of two major plans by students who elect a double major;
4. transfer credit from other schools and colleges of the University of Michigan and from other academic institutions;
5. a course elected outside the department of major or major requirements used to meet the Upper-Level Writing Requirement, the Race and Ethnicity Requirement, or the Quantitative Reasoning Requirement;
6. courses in Non-LSA units offering courses with a Creative Expression designation. (Credits are counted as non-LSA.)

An area distribution plan **may not** include:

1. any course from the department of major;
2. required cognates in a major plan;
3. courses at the 400-level and above;
4. experiential courses, Independent Study, and University (UC) mini-courses;
5. Advanced Placement credits.

Area Definitions

Natural Science

Natural Science (NS) courses focus on the understanding of our natural world through application of the scientific method, which emphasizes observation, experimentation, formation of testable hypotheses about natural phenomena, and testing of those hypotheses.

Social Science

Social Science (SS) courses focus on the study of the social behavior of individuals, groups, societies, nations, and states. Social scientists often use qualitative methods, such as ethnography, oral history, and descriptive analysis of archival materials and artifacts. They also use quantitative tools grounded in the scientific method to collect and analyze data and form testable hypotheses about social phenomena.

Humanities

Humanities (HU) courses focus on the human condition as expressed, for example, in literature, religion, philosophy, and the visual and performing arts. Its methods are analytical, critical, and speculative, and can often be contrasted with the quantitative and qualitative methods employed in the social sciences.

Mathematical and Symbolic Analysis

Mathematical and Symbolic Analysis (MSA) courses focus primarily on the mathematical and statistical tools used to support the study of the natural and social sciences. Rather than mathematical manipulation or computation, these courses focus on the methodology used to analyze quantitative information to make decisions, judgments and predictions. This involves defining a problem by means of numerical or geometrical representations of real-world phenomena, determining how to solve it, deducing consequences, formulating alternatives, and predicting outcomes. In addition to mathematics and statistics, MSA courses are taught in a variety of subjects, including astronomy, biology, chemistry, economics, the environment, geological sciences, philosophy, physics, and sociology.

Creative Expression

Creative Expression (CE) courses entail hands-on activities that allow students to express their creativity through a wide range of arts. This differs from courses in the Humanities (HU) that are taught at a more theoretical or abstract level. For example, HU music courses focus on theory without making sounds or practicing music. CE courses teach students how to apply the theory not only on paper but through playing an instrument, creating sound, composing music, or arranging music. CE courses may address many different mediums, including the performing arts, fine arts, plastic and visual arts architecture, ceramics, metalworking, paper and textiles, woodworking, and glass.

Interdisciplinary

Interdisciplinary (ID) courses combine in roughly equal measure the approaches within two or three of the primary distributions (HU, NS, and SS) in order to examine the differences and similarities between disciplines and explore alternative ways of discovering and organizing knowledge. Interdisciplinary work is primarily concerned with crossings and connections between areas of knowledge, inquiry, and method. ID courses emphasize critical thinking, team-based intellectual work, and the analytic skills characteristic of each discipline.

General Guidelines for Distribution Courses

In general, Distribution courses should:

- Be broad in scope rather than narrowly focused
- Be accessible to students with no background in the subject
- Be introductory in nature rather than a specialized upper-level course

These types of courses will not be approved for Distribution:

- Independent studies, experiential, and research courses
- Courses designed to develop or hone specific skills (e.g., introductory composition and language courses)

Non-LSA Units Offering Courses with Creative Expression

Penny W. Stamps School of Art & Design

Art and Design (ARTDES)

- 110. Digital Studio I: Image
- 170. Drawing Studio I: Line
- 171. Printmaking for Non-Majors
- 172. Painting for Non-Majors
- 173. Digital Photography for Non-Majors
- 174. Watercolor for Non-Majors
- 175. Life Drawing for Non-Majors
- 176. Graphic Imaging for Non-Majors
- 177. Metals for Non-Majors
- 178. Animation for Non-Majors
- 179. Sculpture for Non-Majors
- 181. Clay for Non-Majors
- 182. Wood for Non-Majors
- 220. Tools, Materials, and Processes Studio III: Time
- 230. Concept Form and Context Studio III
- 231. Concept Form and Context Studio III

College of Engineering

University Arts (UARTS)

- 150. Introduction to the Creative Process (effective Winter 2015)

A. Alfred Taubman College of Architecture and Urban Planning

Architecture (ARCH)

- 201. Basic Drawing
- 202. Graphic Communication
- 218. Visual Studies

School of Music, Theatre & Dance

Dance (DANCE)

- 100. Introduction to Dance
- 261. Congolese Dance 1
- 262. Congolese Dance 1

Ensemble (ENS):

All Courses 100-399

Performance - Piano (PIANO)

110. Performance

111. Performance

Other courses

Courses (100-399) in Music Performance SUBJECTS other than Piano Performance may also be used for Creative Expression, but enrollment is restricted to students of advanced ability.

Majors

The major provides students the opportunity to acquire in-depth knowledge in one academic discipline while developing and refining skills that will serve them in a wide array of academic and non-academic endeavors.

All majors and minors are listed on the official transcript once the student graduates and the degree is posted. Majors and minors are not listed, however, on the diploma unless a student receives Honors in a major through the Honors Program.

General Guidelines

1. Students normally declare a major during the second term of their sophomore year.
2. To declare a major, a student should contact the appropriate department and make an appointment with a department advisor.
3. After developing a plan for the major with the student, the department advisor has the major entered on the student's record.
4. Requirements for majors are those applicable at the time the student declares the major.
5. A student may change the plan for the major with the approval of the department advisor.
6. Students may change majors after meeting with a department advisor in a different department.
7. Honors students with academic interests outside existing majors may propose their own major and, on approval, elect an Individualized Major Program within **Honors**.

Current Policies

Effective Winter 2019

1. Each A.B. or B.S. student must develop a major plan in consultation with a major advisor, who must also approve it.
2. Course requirements for the various majors range from 24 to 48 credits at the 200-level and above.
3. No more than 60 credits in a major (including courses in one department and the required cognates) may be counted toward the 120 for the degree. When an academic department has two or more SUBJECTS (e.g., Anthropology, Romance Languages and Literatures), a student may count a total of 60 credits from that department, not from each SUBJECT.

4. No more than 60 credits in one language (other than English) may be counted in the 120 required for a degree. However, the 60 credit limit on courses elected in one major may be exceeded when the excess credits have been used to meet the language requirement.
5. Students electing an area, interdepartmental, or special major may count no more than 60 credits in any one department.
6. Students may not elect courses in a major, including required cognates, using the Pass/Fail grading option.
7. A department or program may include courses that are graded on a Credit/No Credit basis in its major, but all other courses in the major must be taken for a grade.
8. A maximum of one course may be shared between the requirements of a minor and a major.
9. No course may be shared between the requirements a major and a supplemental studies program.
10. No course from the department of a major or a required course in a major may be part of a distribution plan. However, when pursuing more than one major, courses from one of the majors may be used toward distribution.
11. A student must earn an overall GPA of at least 2.0 in courses taken in the major. This includes all courses taken in the department of the major (prerequisites, required courses, and electives) and any required cognates. Exceptions for specific majors are listed in the Academics and Requirements section of the LSA website.
12. Courses that are part of the student's major may also meet the Upper-Level Writing Requirement, the Race & Ethnicity Requirement, or the Quantitative Reasoning Requirement.
13. Effective in Fall 2004, students graduating with an Honors major are required to earn an overall GPA of 3.4. Individual departments may have higher GPA requirements for courses in their majors. Check Honors major guidelines in individual departments listed in the Academics and Requirements section of the LSA website.
14. Test credits may not be used to meet the *requirements* of a major but may be used to meet *prerequisites*. Departmental exceptions to this policy may be granted by the LSA Curriculum Committee.

Multiple Majors

A student electing a double major must meet all requirements for both majors. Courses, including cognates, elected as part of one major may be used, when appropriate, to satisfy the requirements of the second major. Courses from one of the majors may be used toward distribution. Each plan for the major must be developed in consultation with and approved by a department advisor.

Second Major after Graduation

Students may complete a second major any time after graduation by registering as a non-degree candidate through the Office of Admissions. Once the requirements for the major are complete, their department advisor must submit an online major/minor release form to the academic auditors so the second major can be added to the student's transcript. Students may not add, complete, or declare a minor after graduation. Students are, however, permitted to use the credits earned towards a minor in the completion of an additional major after graduation. Upon

completion of this additional major, the minor will be removed from the student's transcript and be replaced by the major. Students also may not change their degree (e.g., A.B. to B.S.) after graduation.

Honors Majors

All departments and interdisciplinary programs offer Honors versions of their majors, which are coded as Honors Plans. At the beginning of the third year, or when it is appropriate in the department's process, students may apply to a departmental Honors major. Students who meet departmental criteria are eligible to apply whether or not they have previously been in the Honors Program. Admission of upperclass students is determined by LSA departments and programs. Students will be required to have a cumulative GPA of 3.4 to graduate with Honors; they may embark on an Honors major before they have reached that threshold, but the minimum should be attainable by the time they graduate.

Students who are accepted into an Honors plan automatically become LSA Honors students.

Honors majors are described under the relevant departmental listings. Candidates for graduation with Honors must perform very well in courses and also demonstrate ability in original thesis work and, in some majors, pass a comprehensive examination. Effective fall 2004, students graduating with an Honors plan are required to earn an overall GPA of 3.4. Individual departments may have higher GPA requirements for courses in the major. Check Honors plan guidelines within individual departments.

Many departments require their Honors majors to register for special seminars and independent study research courses. During the senior year, Honors majors carry out research and write a thesis under the direction of a faculty mentor. With only a few exceptions, graduation with Honors requires the completion of a Senior Honors thesis.

After an evaluation of the thesis and the overall academic record, Honors department advisors recommend that students graduate with an Honors degree.

The department will then send one of four possible recommendations to the Honors Office: "No Honors," "Honors," "High Honors," or "Highest Honors." No Honors is given for work that does not meet departmental standards, and for students with GPAs under 3.4 ("No Honors" is not noted on the transcript or diploma.) The other three will be posted on the final transcript and diploma. Honors majors are described under the relevant departmental listings under Majors and Minors.

Students may also petition the Honors Program for approval of an Honors Individualized Major Program (HIMP). Information about the program is available in 1330 Mason Hall.

In some rare circumstances, departments may ask the Honors Academic Board to graduate with Honors a student whose cumulative GPA is below the required threshold at the time of graduation. The request should be made by the faculty advisors who know the student's work and history best, but must be endorsed by the director of undergraduate studies and the chair of the

department. The letter(s) for this request should explain the student's circumstances, describe the Honors work, and provide a justification for making an exception to the GPA requirement.

The Honors IMP is intended for exceptional students who wish to undertake a liberal arts program of study not currently available in an existing departmental major or program. HIMPs are interdepartmental or interdisciplinary in character and include courses from a variety of sources. While the HIMP encourages diversity and flexibility, each HIMP must have an identifiable academic focus within LSA, an appropriate disciplinary base, and unifying theme, and culminate in the writing of an Honors thesis. An HIMP should not be a specialization within an already existing major. It should include an adequate number of prerequisite courses.

Since HIMPs require an unusual level of intellectual competence and maturity, an overall GPA of 3.5 and, in most cases, a 3.7 in courses related to the HIMP subject are required for admission to the program. The Honors Academic Board reviews all proposals.

Graduation with "Honors," "High Honors," or "Highest Honors" is granted upon recommendation of the thesis advisor and readers.

Honors Advising. Students interested in submitting an HIMP should contact Lisa Broome, Associate Director of the Honors Program, to discuss goals and procedures. A formal prospectus, developed in consultation with appropriate faculty advisor, is then submitted for review and approval by the Honors Academic Board.

Students who have completed at least 58 credits in residence and have demonstrated high academic achievement and capacity for independent work in a departmental Honors concentration program may be recommended for a degree "with Highest Honors," "with High Honors," or "with Honors" in the major. Capacity for independent work must be demonstrated in part by superior performance in an Honors program or some achievement of equivalent character. A minimum overall grade point average of 3.4 is required. A notation is made on the diploma and the transcript.

During the senior year, Honors majors carry out research and write a thesis under the direction of a faculty mentor. With only a few exceptions, such as Math and Computer Science, graduation with Honors requires the completion of a Senior Honors thesis. This consists of detailed, original research in a student's chosen field. The thesis is normally completed during the senior year. Length and format requirements vary by department. Thesis research and writing is normally done under the direction of a professor who shares the student's areas of interest.

Many departments require their Honors majors to register for special seminars and independent study research courses. Other departments do not have these courses, so their students can choose to enroll in HONORS 490. Since thesis research and writing most often extends beyond one term, the course may be assigned a "Y" grade for the term or terms prior to completion. This simply means "extended course" or "work in progress." At the completion of the thesis, one letter grade will be assigned for all the terms involved. Unlike an "I" (for an incomplete), the "Y" does not remain on the record.

After an evaluation of the thesis and the overall academic record, Honors department advisors recommend that students graduate with Honors. Deadlines and procedures for evaluating senior

theses vary by department. Some departments have a committee that evaluates all theses, whereas others are based primarily on the judgment of the student's advisor and the Departmental Honors advisor.

The Department will then send one of four possible recommendations to the Honors Office: "No Honors," "Honors," "High Honors," or "Highest Honors." No Honors is given for work that does not meet departmental standards, and for students with GPAs under 3.4 ("No Honors" is not noted on the transcript or diploma). The Honors Academic Board will accept petitions from departments requesting exceptions to the above minimum GPA requirements if there is compelling evidence that an Honors student's final GPA does not adequately represent the student's record of outstanding academic achievement. The other three recommendations ("Honors," "High Honors," "Highest Honors") will be posted on the final transcript and diploma. These are separate from the Distinction awards, which are also posted on graduates' diplomas and transcripts. Levels of Distinction are awarded on the basis of the student's final cumulative GPA. You can also find out more by going to the **Diplomas and Distinction page**.

All seniors are eligible to apply for senior thesis and travel grants. These include the *Graf Research Grant*, the *Hellman Family Grant*, the *Davidson Grant*, the *Kennedy Travel Grant*, and the *Cutcheon Research and Travel Grants*. Information is available in the Honors Office, and on the Honors website.

Honors Thesis Intent Form for the Upper-Level Writing Requirement:

Honors students have the option of using their senior theses to satisfy the Upper-Level Writing Requirement. A *Sweetland Center for Writing Thesis Intent Form* is available in the Honors Office, and must be filled out by the student and the thesis advisor. An Honors Director will then approve the request, and it will be forwarded to the Sweetland Center for Writing for processing. This form should be completed within the first couple of weeks of the term the student plans to finish the thesis. Completion of the requirement hinges on satisfactory completion of the thesis. The form is available in the Honors Office or is downloadable from the Honors website.

Deep Blue Archive. The Honors Program recognizes the significance of the scholarship in Honors theses by making it permanently available to the academic community. This can be done by Honors students depositing their thesis in the Honors Thesis collection of the University of Michigan's Deep Blue electronic archive. Every term after graduation, the Honors academic auditor sends all Honors graduates information and web links to submit the Honors thesis in the Deep Blue archive.

Students who have completed at least 58 credits in residence and have demonstrated high academic achievement and capacity for independent work in a departmental Honors concentration program may be recommended for a degree "with Highest Honors," "with High Honors," or "with Honors" in the major. Capacity for independent work must be demonstrated in part by superior performance in an Honors program or some achievement of equivalent character. A minimum overall grade point average of 3.4 is required. A notation is made on the diploma and the transcript.

Previous Policies for Majors

Effective Winter 2016 - Fall 2018

1. Each A.B. or B.S. student must develop a major plan in consultation with a major advisor, who must also approve it.
2. Course requirements for the various majors range from 24 to 48 credits at the 200-level and above.
3. No more than 60 credits in a major (including courses in one department and the required cognates) may be counted toward the 120 for the degree. When an academic department has two or more SUBJECTs (e.g., Anthropology, Romance Languages and Literatures), a student may count a total of 60 credits from that department, not from each SUBJECT.
4. No more than 60 credits in one language (other than English) may be counted in the 120 required for a degree. However, the 60 credit limit on courses elected in one major may be exceeded when the excess credits have been used to meet the language requirement.
5. Students electing an area, interdepartmental, or special major may count no more than 60 credits in any one department.
6. Students may not elect courses in a major, including required cognates, using the Pass/Fail grading option.
7. A department or program may include Experiential or Directed Reading/Independent Study courses that are graded on a Credit/No Credit basis in its major, but all other courses in the major must be taken for a grade.
8. A maximum of one course may be shared between the requirements of a minor and a major.
9. No course may be shared between the requirements of a major and a supplemental studies program.
10. No course from the department of a major or a required course in a major may be part of a distribution plan (see, however, "Double Concentration" below).
11. A student must earn an overall GPA of at least 2.0 in courses taken in the major. This includes all courses taken in the department of the major (prerequisites, required courses, and electives) and any required cognates. Exceptions for specific majors are listed in the Academics and Requirements section of the LSA website.
12. Courses that are part of the student's major may also meet the Upper-Level Writing Requirement, the Race & Ethnicity Requirement, or the Quantitative Reasoning Requirement.
13. Effective in Fall 2004, students graduating with an Honors major are required to earn an overall GPA of 3.4. Individual departments may have higher GPA requirements for courses in their majors. Check Honors major guidelines in individual departments listed in the Academics and Requirements section of the LSA website.
14. Test credits may not be used to meet the *requirements* of a major but may be used to meet prerequisites. Departmental exceptions to this policy may be granted by the LSA Curriculum Committee.

Effective Through Fall 2015

1. Each A.B. or B.S. student must develop a major plan in consultation with a department

- advisor, who must also approve it.
2. Course requirements for the various majors range from 24 to 48 credits at the 200-level and above.
 3. No more than 60 credits in a major (including courses in one department and the required cognates) may be counted toward the 120 for the degree. When an academic department has two or more SUBJECTs (e.g., Anthropology, Romance Languages and Literatures), a student may count a total of 60 credits from that department, not from each SUBJECT.
 4. No more than 60 credits in one language (other than English) may be counted in the 120 required for a degree. However, the 60 credit limit on courses elected in one major may be exceeded when the excess credits have been used to meet the language requirement.
 5. Students electing an area, interdepartmental, or special major may count no more than 60 credits in any one department.
 6. Students may not elect courses in a major, including required cognates, using the Pass/Fail grading option.
 7. A department or program may include Experiential or Directed Reading/Independent Study courses that are graded on a Credit/No Credit basis in its major, but all other courses in the major must be taken for a grade.
 8. A maximum of one course may be shared between the requirements of a minor and a major.
 9. No course may be shared between the requirements a major and a supplemental studies program.
 10. No course from the department of a major or a required course in a major may be part of a distribution plan (see, however, Double Major).
 11. A student must earn an overall GPA of at least 2.0 in courses taken in the major. This includes all courses taken in the department of the major (prerequisites, required courses, and electives) and any required cognates. Exceptions for specific majors are listed at their department site.
 12. Courses that are part of the student's major may also meet the Upper-Level Writing Requirement, the Race & Ethnicity Requirement, or the Quantitative Reasoning Requirement.
 13. Effective in Fall 2004, students graduating with an Honors plan are required to earn an overall GPA of 3.4. Individual departments may have higher GPA requirements for courses in their majors. Check Honors major guidelines in individual departments listed in the Academics and Requirements section of the LSA website.

Minors

Effective Winter 2020

Students in the College may elect one or more minors offered by departments and programs within the College or by other academic units on campus. Electing to earn a minor is optional, and there is no limit to the number of minors a student may elect.

A minor must require no fewer than 15 credits of course work, show structure and coherence, and contain some upper-level courses. At least nine out of the 15 credits must be taken in

residence. Students who declare and complete an approved minor will receive a notation on their student transcript but not on their diploma.

Each A.B. or B.S. student who wishes to complete an approved minor must develop a plan for the minor in consultation with a department or program advisor, who must also approve it.

1. After developing a plan with the student, the program or department advisor has the minorentered on the student's record.
2. A minor is not an option available to students earning the B.G.S. degree.
3. An individually designed minor is not allowed.
4. Students may not elect the pass/fail grading option for courses included in a minor.
5. A department or program may include courses that are graded on a credit/no credit basis in a minor, but all other courses in the minor must be taken for a grade.
6. No course may be shared between the requirements of more than one minor.
7. No course may be shared between the requirements of a minor and a supplemental studies program.
8. A maximum of one course may be shared between the requirements of a minor and a major.
 - o If a student has more than one major, the shared minor course can be different for each major (course "A" with the first major, course "B" with the second major, etc.). It's also acceptable for students to share the same course in their minor with multiple majors (course "A" with the first and the second major).
9. If the minor has prerequisites, courses used as prerequisites to a major may also count as prerequisites to the minor.
10. Test credits may not be used to meet the *requirements* of a minor, but they may be used to meet *prerequisites*.
11. Courses elected to meet the requirements of a minor may also be part of the student's areadistribution plan.
12. A student must earn an overall GPA of at least 2.0 in the minor, including any departmental prerequisites necessary for the completion of the minor.
13. Courses that are part of a student's minor may also meet the Language Requirement, the Upper-Level Writing Requirement, the Race and Ethnicity Requirement, or the Quantitative Reasoning Requirement.
14. Students may not add, complete, or declare a minor after graduation. Students are, however, permitted to use the credits earned towards a minor in the completion of an additional major after graduation. Upon completion of this additional major, the minor will be removed from the student's transcript and be replaced by the major.

Minors - Other Units

Students in the units listed below also have the option of pursuing minors offered by LSA. Limitations may apply on which minors may be chosen. Interested students should consult an academic advisor in their home unit before making an appointment to see an LSA department advisor about minors offered in LSA.

- the A. Alfred Taubman College of **Architecture and Urban Planning** (effective fall 2003)
- the Penny W. Stamps School of **Art & Design** (effective winter 2002)
- the Stephen M. Ross School of **Business** (effective fall 2004)
- the **Dental Hygiene** Program (effective winter 2003)

- the School of **Education** (effective fall 2002)
- the College of **Engineering** (effective winter 2001)
- the School of **Information** (effective fall 2014)
- the School of **Kinesiology** (effective fall 2001)
- the School of **Music, Theatre & Dance** (effective winter 2002)
- the School of **Natural Resources and Environment** (effective winter 2002)
- the School of **Nursing** (effective fall 2002)
- the School of **Public Health** (effective fall 2017)
- the Gerald R. Ford School of **Public Policy** (effective fall 2007)

The **Penny W. Stamps School of Art & Design** offers a minor in Art and Design.

The **Stephen M. Ross School of Business** offers a Minor in Business.

The **School of Education** offers a minor in Education for Empowerment.

The **College of Engineering** offers the following minors:

1. International minor for engineers (not open to LSA students)
2. Multidisciplinary design
3. Electrical engineering
4. Computer science
5. Climate and space sciences and engineering
6. Naval architecture and marine engineering (not open to LSA students)
7. Environmental engineering (not open to LSA students)

The **School of Kinesiology** offers the following minors (not open to LSA students):

1. Movement science
The movement science minor is open only to dance majors in the School of Music, Theatre & Dance.

The **School of Music, Theatre & Dance** offers four minors:

1. Music
2. Global theatre and ethnic studies
3. Performing arts management
4. Design and production

The **School of Social Work** offers a minor in Community Action and Social Change.

Previous Policies for Minors

Effective Winter 2019 - Fall 2019

Students in the College may elect one or more minors offered by departments and programs within the College or by other academic units on campus. Electing to earn a minor is optional, and there is no limit to the number of minors a student may elect.

A minor must require no fewer than 15 credits of course work, show structure and coherence, and contain some upper-level courses. At least 10 out of the 15 credits must be taken in residence. Students who declare and complete an approved minor will receive a notation on their student transcript but not on their diploma.

Academic Policies

Each A.B. or B.S. student who wishes to complete an approved minor must develop a plan for the minor in consultation with a department or program advisor, who must also approve it.

1. After developing a plan with the student, the program or department advisor has the minor entered on the student's record.
2. A minor is not an option available to students earning the B.G.S. degree.
3. An individually designed minor is not allowed.
4. Students may not elect the pass/fail grading option for courses included in a minor.
5. A department or program may include courses that are graded on a credit/no credit basis in a minor, but all other courses in the minor must be taken for a grade.
6. No course may be shared between the requirements of more than one minor.
7. No course may be shared between the requirements of a minor and a supplemental studies program.
8. A maximum of one course may be shared between the requirements of a minor and a major.
 - o If a student has more than one major, the shared minor course can be different for each major (course "A" with the first major, course "B" with the second major, etc.). It's also acceptable for students to share the same course in their minor with multiple majors (course "A" with the first and the second major).
9. If the minor has prerequisites, courses used as prerequisites to a major may also count as prerequisites to the minor.
10. Test credits may not be used to meet the *requirements* of a minor, but they may be used to meet *prerequisites*.
11. Courses elected to meet the requirements of a minor may also be part of the student's area distribution plan.
12. A student must earn an overall GPA of at least 2.0 in the minor, including any departmental prerequisites necessary for the completion of the minor.
13. Courses that are part of a student's minor may also meet the Language Requirement, the Upper-Level Writing Requirement, the Race and Ethnicity Requirement, or the Quantitative Reasoning Requirement.
14. Students may not add, complete, or declare a minor after graduation. Students are, however, permitted to use the credits earned towards a minor in the completion of an additional major after graduation. Upon completion of this additional major, the minor will be removed from the student's transcript and be replaced by the major.

Effective Winter 2016 - Fall 2018

Students in the College may elect one or more minor offered by departments and programs within the College or by the other academic units on campus. Electing to earn a minor is optional, and there is no limit on the number of minors a student may elect. For more

information, see the Academics and Requirements section of the LSA website.

A minor must require no less than 15 credits of course work, show structure and coherence, and contain some upper-level courses. At least 10 out of the 15 credits must be taken in-residence. Students who declare and complete an approved minor will receive a notation on their student transcript but not on their diploma.

Academic Policies

1. Each A.B. or B.S. student who wishes to complete an approved minor must develop a plan for the minor in consultation with a department or program advisor, who must also approve it.
2. After developing a plan for its minor with the student, the program or department advisor has the minor entered on the student's record.
3. The minor is not an option available to students earning the B.G.S. degree.
4. An individually designed minor is not allowed.
5. Students may not elect courses included in a minor by the Pass/Fail grading option.
6. A department or program may include Experiential or Directed Reading/Independent Study courses that are graded on a Credit/No Credit basis in a minor, but all other courses in the minor must be taken for a grade.
7. No course may be shared between the requirements of more than one minor.
8. No course may be shared between the requirements of a minor and a supplemental studies program.
9. A maximum of one course may be shared between the requirements of a minor and a major.
10. If the minor has prerequisites, courses used as prerequisites to a major may also count as prerequisites to the minor.
11. Test credits may not be used to meet the requirements of a minor, but may be used to meet prerequisites.
12. Courses elected to meet the requirements of a minor also may be part of the student's areadistribution plan.
13. A student must earn an overall GPA of at least 2.0 in the minor, including any departmental prerequisites necessary for the completion of the minor.
14. Courses that are part of a student's minor may also meet the Language Requirement, the Upper-Level Writing Requirement, the Race & Ethnicity Requirement, or the Quantitative Reasoning Requirement.

Effective Winter 2014 - Fall 2015

1. Each A.B. or B.S. student who wishes to complete an approved minor must develop a plan for the minor in consultation with a department or program advisor, who must also approve it.
2. After developing a plan for its minor with the student, the program or department advisor has the minor entered on the student's record.
3. The minor is not an option available to students earning the B.G.S. degree.
4. An individually designed minor is not allowed.
5. Students may not elect courses included in a minor by the Pass/Fail grading option.
6. A department or program may include Experiential or Directed Reading/Independent

Study courses that are graded on a Credit/No Credit basis in a minor, but all other courses in the minor must be taken for a grade.

7. No course may be used to satisfy the requirements of more than one minor.
8. No course may be shared between the requirements of two minors, or between a minor and an undergraduate certificate.
9. A maximum of one course may be shared between the requirements of a minor and a major.
10. If the minor has prerequisites, courses used as prerequisites to a major may also count as prerequisites to the minor.
11. Advanced Placement credits may not be used to meet the *requirements* of a minor, but may be used to meet *prerequisites*.
12. Courses elected to meet the requirements of a minor also may be part of the student's area distribution plan.
13. A student must earn an overall GPA of at least 2.0 in the minor, including any departmental prerequisites necessary for the completion of the minor.
14. Courses that are part of a student's minor may also meet the Language Requirement, the Upper-Level Writing Requirement, the Race & Ethnicity Requirement, or the Quantitative Reasoning Requirement.
15. Students may not add, complete, or declare a minor after graduation.

Effective Winter 2012-Fall 2013

1. Each A.B. or B.S. student who wishes to complete an approved minor must develop a plan for the minor in consultation with a department or program advisor, who must also approve it.
2. After developing a plan for its minor with the student, the program or department advisor has the minor entered on the student's record.
3. The minor is not an option available to students earning the B.G.S. degree.
4. An individually designed minor is not allowed.
5. Students may not elect courses included in a minor by the Pass/Fail grading option.
6. A department or program may include Experiential or Directed Reading/Independent Study courses that are graded on a Credit/No Credit basis in a minor, but all other courses in the minor must be taken for a grade.
7. No course may be used to satisfy the requirements of more than one minor.
8. No course may be shared between the requirements of two minors, or between a minor and an undergraduate certificate.
9. A maximum of one course may be shared between the requirements of a minor and a major.
10. If the minor has prerequisites, courses used as prerequisites to a major may also count as prerequisites to the minor.
11. Advanced Placement credits may not be used to meet the *requirements* of a minor, but may be used to meet *prerequisites*.
12. Courses elected to meet the requirements of a minor also may be part of the student's area distribution plan.
13. A student must earn an overall GPA of at least 2.0 in the minor, including any prerequisites.
14. Courses that are part of a student's minor may also meet the Language Requirement, the Upper-Level Writing Requirement, the Race & Ethnicity Requirement, or the Quantitative Reasoning Requirement.
15. Students may not add, complete, or declare a minor after graduation, or convert a minor to a major after graduation.

Effective Fall 2008-Fall 2011

1. Each A.B. or B.S. student who wishes to complete an approved minor must develop a plan for the minor in consultation with a department or program advisor, who must also approve it.
2. After developing a plan for a minor with the student, the program or department advisor has the minor entered on the student's record.
3. The minor is not an option available to students earning the B.G.S. degree.
4. An individually designed minor is not allowed.
5. Courses in the minor must be elected for a grade.
6. Students may not elect a major and a minor, or two minors, in the same department or program, unless a specific exemption to this policy is noted in the minor description posted on the academics and requirements website.
7. No course may be used to satisfy the requirements of more than one minor.
8. Students may not use more than one course to meet both the requirements of a minor and the prerequisites or requirements of a major.
9. If the minor has prerequisites, courses used as prerequisites to a major may also count as prerequisites to the minor.
10. Advanced Placement credits may not be used to meet the *requirements* of a minor, but may be used to meet *prerequisites*.
11. Courses elected to meet the requirements of a minor also may be part of the student's area distribution plan.
12. A student must earn an overall GPA of at least 2.0 in the minor, including any prerequisites.
13. Courses that are part of a student's minor may also meet the Language Requirement, the Upper-Level Writing Requirement, the Race & Ethnicity Requirement, or the Quantitative Reasoning Requirement.
14. Students may not complete a minor after graduation, and a minor may not be converted to a major after graduation.

Effective Through Summer 2008

1. Each A.B. or B.S. student who wishes to complete an approved minor must develop a plan for the minor in consultation with a department or program advisor, who must also approve it.
2. After developing a plan for a minor with the student, the program or department advisor has the minor entered on the student's record.
3. The minor is not an option available to students earning the B.G.S. degree.
4. An individually designed minor is not allowed.
5. Courses in the minor must be elected for a grade.
6. Students may not elect a major and a minor, or two minors, in the same department or program, unless a specific exemption to this policy is noted in the minor description posted on the academics and requirements website.
7. Students may not use more than one course to meet the requirements of both a plan for the major and a minor.
8. No course may be used to satisfy the requirements of more than one minor.
9. If the minor has prerequisites, courses used as prerequisites to a major may also

- count as prerequisites to the minor.
10. Advanced Placement credits may not be used to meet the *requirements* of a minor, but may be used to meet *prerequisites*.
 11. Courses elected to meet the requirements of a minor also may be part of the student's areadistribution plan.
 12. A student must earn an overall GPA of at least 2.0 in the minor, including any prerequisites.
 13. Courses that are part of a student's minor may also meet the Language Requirement, the Upper-Level Writing Requirement, the Race & Ethnicity Requirement, or the Quantitative Reasoning Requirement.

Supplemental Studies

The College does not sanction supplemental studies offered by LSA departments. On the other hand, the College will consider supplemental studies offered by non-LSA departments or programs. Undergraduate supplemental studies can provide opportunities for LSA students to develop additional experience and skills to complement their major(s) or minor(s).

Each A.B., B.S., B.S.-Chem., or B.G.S. student may complete one or more supplemental studies programs approved by the College. Electing to earn supplemental studies is optional, and there is no limit to the number of supplemental studies a student may elect. Supplemental studies, along with their requirements and other pertinent information, are described in detail on this page.

Supplemental studies must require no fewer than nine credits of course work, show structure and coherence, and contain some upper-level courses. Students who declare and complete approved supplemental studies will receive a notation on their student transcript but not on their diploma.

Policies for Supplemental Studies

Effective Winter 2014

1. Each A.B., B.S., or B.G.S. student may complete one or more supplemental studies program.
2. Each student who wishes to complete a supplemental studies program must develop a plan in consultation with a program advisor.
3. After developing a plan with the student, the program or department advisor has the supplemental studies program entered on the student's record.
4. An individually designed supplemental studies program is not allowed.
5. Students may not elect courses included in a supplemental studies program using the pass/fail grading option.
6. A department or program may include experiential or directed reading/independent study courses that are graded on a credit/no credit basis in a supplemental studies program, but all other courses in the supplemental studies program must be taken for a grade.
7. No course may be shared between the requirements of two supplemental studies programs, between a major and a supplemental studies program, or between a minor and a supplemental studies program.
8. One course may be shared between the B.G.S. upper-level credits requirement and a supplemental studies program.

9. Advanced Placement (AP) credits may not be used to meet the requirements of a supplemental studies program.
10. A student must earn an overall GPA of at least 2.0 in the required courses in the supplemental studies program.
11. Courses elected to meet the requirements of a supplemental studies program also may be part of the student's area distribution plan.
12. Courses that are part of a supplemental studies program may also meet the Language Requirement, the Upper-Level Writing Requirement, the Race & Ethnicity Requirement, or the Quantitative Reasoning Requirement.
13. Students may not complete a supplemental studies program after graduation, and a supplemental studies program may not be converted to an academic minor after graduation.

List of Supplemental Studies Programs

- Program in Entrepreneurship (Innovate Blue)
- Sustainability (Graham Sustainability Institute)

Previous Policies for Supplemental Studies

1. Each A.B., B.S., or B.G.S. student may complete one or more supplemental studies program.
2. Each student who wishes to complete a supplemental studies program must develop a plan in consultation with a program advisor.
3. After developing a plan with the student, the program or department advisor has the supplemental studies program entered on the student's record.
4. An individually designed supplemental studies program is not allowed.
5. Students may not elect courses included in a supplemental studies program using the pass/fail grading option.
6. A department or program may include Experiential or Directed Reading/Independent Study courses that are graded on a Credit/No Credit (C/NC) basis in a supplemental studies program, but all other courses in the supplemental studies program must be taken for a grade.
7. No course may be shared between the requirements of two supplemental studies program, between a major and a supplemental studies program, or between a minor and a supplemental studies program.
8. One course may be shared between the B.G.S. upper level credits requirement and a supplemental studies program.
9. Advanced Placement credits may not be used to meet the requirements of a supplemental studies program.
10. A student must earn an overall GPA of at least 2.0 in the supplemental studies program.
11. Courses elected to meet the requirements of a supplemental studies program also may be part of the student's area distribution plan.
12. Courses that are part of a supplemental studies program may also meet the Language Requirement, the Upper-Level Writing Requirement, the Race & Ethnicity Requirement, or the Quantitative Reasoning Requirement.
13. Students may not complete a supplemental studies program after graduation, and a supplemental studies program may not be converted to an academic minor after graduation.

LSA Academic Policies and Procedures

This document is an unofficial representation of the information available on the LSA Website

The Academic Policies and Procedures portion of the LSA website governs the conduct of academic matters affecting students enrolled in the College. Students are responsible and accountable for knowledge of the requirements, procedures and regulations set forth here. Advisors, faculty, and staff may assist students by explaining requirements and procedures in individual instances. However, the ultimate responsibility for compliance with procedures and requirements rests with the student.

Credit Policies and Information

Course Credits and Contact Hours

The amount of credit awarded for a course is based on contact hours (time spent in class with the instructor).

A credit hour general represents one hour of lecture, discussion, recitation, and seminar.

- Students are expected to spend three hours of work each week outside of class for each credit hour. Please note, additional credit is not awarded for work outside of class, homework, field trips, film screenings, or reading and writing assignments.
- Labs that meet in an actual laboratory classroom such as used in Biology and Chemistry must meet for at least two hours for each credit earned.
- When departments schedule a “lab” for the purpose of film screenings, for example, this is considered a scheduling tool to ensure students set aside that time for required class activity. This time is not considered a part of contact hours for the course.

Credit Hour Modification

Students may petition to elect a course for either more or fewer credits than the number printed in the **Undergraduate Course Catalog** and **LSA Course Guide**. Requests for additional credits must include a rationale and information on additional coursework the student will complete. Requests for fewer credits must include a rationale and information on what changes will be made to the course to justify a reduction in credits. In both cases, the request must be approved by the instructor and submitted prior to the drop/add deadline for the term. Final approval of petitions to adjust the credit hour for a course is made by the LSA Office of Student Academic Affairs.

Students may find the “Request for LSA Modification of Credit Hours” petition in **MyAdvising**.

Class Standing

Class standing is determined by the number of credit hours accumulated toward graduation (including test and transfer credit) at the end of a given term.

Class Standing	Credits	For Tuition Purposes
First Year	Fewer than 25 credits	Lower Division
Sophomore	25 through 54 credits	Lower Division
Junior	55 through 84 credits	Upper Division
Senior	85 credits or more	Upper Division

For information on tuition rates please see the **Office of the Registrar**.

Residency Requirements

The college distinguishes between residence credit and out-of-residence credit.

- Residence credit is granted only for courses taken on the Ann Arbor Campus and courses taken at off-campus sites but directed by the Ann Arbor campus (such as a University of Michigan - Ann Arbor study abroad program).
- Out-of-residence credit: test credit, transfer credit, study abroad credit from a non-University of Michigan-Ann Arbor study abroad program.

The following residency requirements are required and may not be petitioned:

- At least 60 of the 120 credits required for a degree must be taken in residence
 - 58 credits in residence are required for those with an earned associates degree
- At least 30 of the last 60 credits for the degree must be earned in residence
- At least 30 credits must be earned while enrolled in the College of Literature, Science, and the Arts

LSA Credit and Non-LSA Credit Policies

LSA students must complete a minimum of 100 credits of LSA courses toward the 120 credits required for a degree.

- Kinesiology courses cross-listed with a LSA subject are awarded LSA credit.
- The following Kinesiology courses are awarded degree credit as non-LSA credit. **Courses not listed below DO NOT EARN degree credit and are noted as NFC on the transcript.**
 - AES 218 - Emergency Response
 - AES/HF/MOVESCI 241 - Ex. Nutr Wt Cn.
 - AT/HF 220 - Anatomy & Physiology
 - AT/HF 221 - Human Anatomy Lab
 - HF 240 - Intro to Fit & Health
 - HF 331 - Biomech Sprt Ftns
 - HF 333 - Legal Iss Sprt Ftns
 - HF/KINESLOGY 425 - PA & Ped Disability
 - HF 434 - Mgr Ethics Sprt Ftns
 - HF 437 - Psych Sport & Exer
 - HF/KINESLOGY 446 - Soc Factors Phys Acts
 - KINESLOGY 302 - Kines Study Abroad
 - KINESLOGY 421 - Disord Vol Move
 - KINESLOGY 422 - Motor Learning
 - KINESLOGY 424 - Aging & Motor Performance
 - KINESLOGY 427 - Expertise
 - KINESLOGY 435 - Biomech Hum Locomot
 - KINESLOGY 437 - MotnCap Anim Biomech
 - KINESLOGY 438 - Musculoskeletal Imag
 - KINESLOGY 441 - Environ Exer Phys
 - KINESLOGY 442 - Exer Endocrinology
 - KINESLOGY 443 - Exercise & Succ Aging
 - KINESLOGY 444 - 6-12 Methods in PE
 - KINESLOGY 448 - CV Ex Phys
 - KINESLOGY 450 - Sem Adapted Phys At

- KINESLGY 471 - Phys Activity Epid
- KINESLGY 472 - Adult Exer Prog
- KINESLGY 474 - Worskite Wellness
- KINESLGY 533 - Neuromechanics
- MOVESCI 110 - Bio&Beh Bases Hu Mvt.
- MOVESCI 219 - Scientific Writing
- MOVESCI 230 - Hum Musculo Anat
- MOVESCI 231- Hum Musculo Anat Lab
- MOVESCI 240 - Intro to Fit&Health
- MOVESCI 250 - Statistics
- MOVESCI 280 - Kin UG Research Opp
- MOVESCI 320 - Motor Control
- MOVESCI 330 - Biomech of Hum Mvmt
- MOVESCI 340 - Exercise Physiol
- MOVESCI 361 - Intro Surg Neuromon
- MOVESCI 421- Disord Vol Move
- MOVESCI 422 - Motor Learning
- MOVESCI 423 - Sensorimot Dev
- MOVESCI 424 - Aging&Motor Perfmnc
- MOVESCI 425 - PA & Ped Disability
- MOVESCI 426 - Cog Neuro of Action
- MOVESCI 427 - Expertise
- MOVESCI 435 - Biomech Hum Locomot
- MOVESCI 437 - MotnCap Anim Biomech
- MOVESCI 438 - Musculoskeletal Imag
- MOVESCI 441 - Environ Exer Phys
- MOVESCI 442 - Exer Endocrinology
- MOVESCI 443 - Exrcse&Succ Aging
- MOVESCI 446 - Soc Factors Phys Act
- MOVESCI 448 - CV Ex Phys.
- MOVESCI 450 - Sem Adapted Phys Act
- MOVESCI 471 - Phys Activity Epid
- MOVESCI 474 - Worksite Wellness
- PHYSED 255 - Hlth Ed Elem Teacher
- PHYSED 336 - K-12 Rhythm&Dance
- PHYSED 444 - 6-12 Methods in PE.
- SM 101 - Pub&Small Grp Comm
- SM 111 - His-Soc Hum Move
- SM 203 - Intro Sport Mgmt
- SM 217 - Business Comm
- SM 246 (346) - Prin of Marketing
- SM 249 - Research Methods
- SM 331 - Econ of Sport
- SM 332 - Org Behave-Sport Org
- SM 333 - Legal Iss Sprt Ftns
- SM 341 - Sport Finance
- SM 431 - Sports & the Media

- SM 432 - Hum Res Mang in Spt.
- SM 433 - Spt&Public Policy
- SM 434 - Mgr Ethics Sprt Fitns
- SM 435 - Sport&the Consumer
- SM 436 - Race Rel,Cul Images
- SM 437 - Psych Sport&Exer
- SM 438 - Sports Econ Policy
- SM 439 - Spnsrshp Lnkd Mrktng
- SM 440 - Sports & Eco Dev
- SM 444 - Sales Mng in Spt Ind
- SM 446 - Brand Strat&Ad Camp
- SM 499 (342) - Strat of Sport Orgs.

Graded and Non-Graded Coursework

LSA students must complete a minimum of 90 graded credits toward the 120 credits required for a degree.

- Graded credits: credits earned in courses in which a letter grade (A through E) is recorded on the transcript. Graded credits earn honor points.
 - Test credit (AP, IB, etc) as well as transfer credit for which students earned a grade at another institution is considered graded credit.
- Non-Graded credits: credits earned in courses in which a P/F, CR/NC, or S/U is recorded on the transcript. Non-graded credits do not earn honor points.

Note: "P" and "PS" courses from COVID grading terms (Winter 2020 through Summer 2021) also count toward the 90 graded credits.

Credits Required Outside of Major Department

Students may count no more than 60 credits from one major (including courses and required related courses) towards the 120 credits needed for a degree. If a department offers multiple subjects (like Anthropology or Romance Languages), you can only count up to 60 credits from that department in total, not from each subject separately. The exception to this policy is if credits in excess of 60 have been used to meet the language requirement. Major courses cross-listed with another department that are not being used to fulfill major requirements may also be counted.

Similarly, students may not count more than 60 credits in any one department, including all subject areas of a department. Subject areas associated with a department are located under “Distribution Policy” on the Requirements page for each major.

Course Sequencing

Some courses (chemistry, mathematics, language, and others) are part of a sequence and must be completed in order. Once a student takes a course in a sequence, they cannot receive credit for taking a prior course in the sequence. For example, a student who successfully completed SPANISH 232 would not receive credit if they then took SPANISH 231.

Once a student successfully completes an in-residence course in a sequence, they cannot receive credit for taking a prior course in the sequence. For example, a student who took SPANISH 231 after taking and passing SPANISH 232 on the Ann Arbor campus would not receive credit for the

SPANISH 231 course.

Sequencing, if it exists, will be noted for each course in the **LSA Undergraduate Course Catalog** and the **LSA Course Guide**. Students should contact a LSA academic advisor if they have questions about whether or not a course is part of a sequence.

Repeating a Course

Students may retake any course taken in residence, regardless of original grade earned. However, the following policies will be applied:

- Retaking a course in which a grade of A+ through C, P, CR, or S was earned will result in no additional credit or honor points. The course and grade appear on the transcript with the notation "Not for Credit."
- Retaking a course in which C- through D- was previously earned will receive honor points but no additional credit toward a degree. The course appears on the transcript with the notation "Repetition."
- Retaking a course in which an E, F, or U grade was originally earned produces both credit toward degree and honor points for courses elected on the graded pattern. There is no special transcript notation.

In all cases, the first election and grade earned remain on the transcript and, if taken as graded, are included in GPA calculations.

Grade earned in prior attempt	Code associated with repeat	Will repeat attempt count toward CTP?	Will repeat attempt count toward honor points?	Will repeat attempt count toward GPA?
A+ through C	NFC (not for credit)	No	No	No
P, CR, S	NFC (not for credit)	No	No	No
C- through D-	REP (repeat)	No	Yes	Yes
E	REP (repeat)	Yes	Yes	Yes
F, NC, NRC, U	REP (repeat)	Yes	No	No

Experiential and Directed Reading/Independent Study Coursework

Students may complete up to 30 credits of Experiential and Directed Reading/Independent Study courses.

- Experiential courses (identified as such in the **Undergraduate Course Catalog** and **LSA Course Guide**) are courses that involve academic work that takes place in a setting other than a university classroom, laboratory, library or study, such as an internship.
- Directed Reading/Independent Study courses (identified as such in the **Undergraduate Course Catalog** and **LSA Course Guide**) may be courses not normally offered by classroom instruction, taught on an independent study basis, or those specially designated as "independent" and elected by special arrangement with the instructor.
- Policies regarding experiential and directed reading/independent study courses:

- No more than 8 credits may be elected in a single term.
- Cannot be used to fulfill distribution requirements
- May be used to fulfill major or minor requirements.

Test Credit (AP, IB, etc.)

The college accepts a variety of test credits, such as Advanced Placement and International Baccalaureate credit. Test credit is considered out-of residence credit.

Advanced Placement (AP)

AP credit may be used as general elective credit, to fulfill the language requirement, and to fulfill major/minor prerequisites. AP may not be used to fulfill distribution requirements. Additional information may be found **here**.

International Baccalaureate (IB)

IB credit may be used as general elective credit and to fulfill distribution requirements, the language requirement, and major/minor prerequisites. Additional information may be found **here**.

International Advanced Standing Credit (A-Level)

A-Level credit may be used as general elective credit and to fulfill distribution requirements and major/minor prerequisites. Additional information may be found **here**.

College Level Examination Program (CLEP)

The University does not accept any general exams. A student may receive CLEP credit for a limited number of the subject exams if they were taken before matriculation at the University of Michigan. Credit will not be given for any CLEP exams taken after the student enrolls at U-M. Information about CLEP and accepted subject tests may be found **here**. CLEP credit may be used as general elective or to fulfill prerequisites but may not be used to fulfill major/minor prerequisites. It may not be used to fulfill distribution requirements.

Credit by Examination (CBE)

Recognizing that students may have background in particular academic areas, the faculty has left it to each department to decide if it is possible for students to earn credit by examination. While the opportunities are quite limited, the amount and type of credit in any area is determined by the academic department(s) in which a student feels qualified to seek credit by examination. Questions regarding such departmental examinations should be directed to the respective department.

Retroactive Language Credit

LSA students may earn up to a maximum of 8 retroactive credits for prior academic work completed in French, German, Hebrew, Latin, and Modern & Ancient Greek. Credits may be earned according to the chart below:

Result on UM Placement Test:	Students must receive a B or better in the following courses:	Number of retroactive credits granted:
Met LSA language requirement	French: 235, 250, or higher German: 300, 325, or higher Latin: 301 or higher Hebrew: 301 or higher Modern Greek: 301 or higher Ancient Greek: 401, 402, or higher	8 credits
French 232 German 232 Latin 232 Hebrew 202 Modern Greek 202 Ancient Greek 302	French 232 German 232 Latin 232 Hebrew 202 Modern Greek 202 Ancient Greek 302	4 credits
French, German, Latin: 231 or lower Hebrew, Modern Greek: 201 or lower Ancient Greek: 301 or lower	Not Applicable	No retroactive credit granted

Details and Restrictions

1. Students must successfully complete a designated course on the U-M—Ann Arbor campus with a B or better.
2. The course taken to earn retro-credits must be the first college course in the foreign language and must be designated as appropriate for this purpose by that department.
3. Although there is no time limit on retro-credit, students are advised to complete coursework and apply for retro-credits within their first year of enrollment in LSA.
4. Taking a designated course Pass/Fail disqualifies students from receiving the retroactive credit.
5. Transfer students are not allowed to earn double credit for the same work. That is, transfer students may either receive transfer credits for the foreign language or retroactive credits given through successful completion of the designated course, but not both.
6. Students may receive a maximum of 8 credits through AP/IB examination and/or retroactive credits.
7. Retroactive language credits are available only to students who began learning French, German, Hebrew, Latin, Modern Greek, or Ancient Greek as a second/non-native foreign language, primarily in a school setting. Students with native language fluency (i.e., students who learned the target foreign language in ways other than formal schooling/instruction) are not eligible to earn retro-credits in that foreign language. Unusual cases will be addressed by the individual departmental department advisors.

How to Apply for Retroactive Credits

1. Enroll in the appropriate course identified in the table above and complete the course with a grade of B or better.
2. Email LSA.Student.Records@umich.edu to request retroactive credits and include the following information:
 1. Name
 2. UMID
 3. Course taken that qualifies for retroactive credits.

If you are awarded credits, approximately 2 months after the end of the term, it will appear on your transcript as “Credit By Exam.”

Transfer Credit Policy

LSA students may transfer credits from other colleges and universities, either before enrolling in LSA or while enrolled in LSA. Transfer credits are subject to the following guidelines.

Transfer Credit Policy

Up to 60 credits may be transferred from other colleges and universities to count toward the 120 required for a LSA degree. Students who have completed an associate’s degree that required 62 credits may transfer 62 credits.

Transferring Credit to U-M Ann Arbor

- **Submitting Transcripts:** To receive credit for classes taken at another institution, students must have an official transcript sent to: Credit Evaluators, Office of Undergraduate Admissions, 300 Student Activities Building, 515 East Jefferson, Ann Arbor , MI 48109-1316. Or electronically to transcripts@umich.edu
- **Submitting Transcripts from Chinese Universities:** Students must arrange for an official CHESICC "verification report" to be sent directly to the Office of Undergraduate Admissions by the CHESICC China Credentials Verification, Baiyan Building, NO. 238 Beisihuan Zhonglu, Haidian District, Beijing, P.R. China (Postcode:100191). Tel: 86-10-61139123 or 86-10-61139120, Website: <http://www.chsi.com.cn> or <http://www.chsi.cn>, Email: kefu@chsi.com.cn or info@chsi.com.cn. More information about this policy or other international transfer policies can be found on the Undergraduate Admissions website.
- **Transfer course equivalencies:** It is the responsibility of the student to confirm that a course will transfer before enrolling in the course.
- Students can check to see if a course has been approved for transfer through the Transfer Credit Equivalency(TCE) webpage at <https://transfercredit.ugadmiss.umich.edu/>.
- If a course is not listed on the TCE, current U-M students may request a pre-evaluation from the Office of Undergraduate Admissions by completing an online form at https://www.ugadmiss.umich.edu/TCE//Student/CT_TCEForm.aspx.
- **Grades:**
 - Only courses with a grade of C or better will be accepted for transfer credit. This

- includes all transferable credit earned outside the University of Michigan.
 - Except for courses from UM-Dearborn and UM-Flint, grades for classes taken at other institutions do not transfer and will not factor into a student's U-M GPA.
- **Transferring credits from UM-Dearborn and UM-Flint:**
 - Grades earned for courses at UM-Dearborn and UM-Flint transfer and are included in the student's UM-Ann Arbor GPA.
 - Courses completed at UM-Dearborn and UM-Flint are defined as out-of-residence credit even though they are included in the student's UM-Ann Arbor GPA.
- **Limitations on transfer credit:**
 - For all transferable credit earned outside of the University of Michigan, only courses with a grade of C or better will be accepted. All courses taken at UM-Dearborn or UM-Flint will transfer regardless of grade.
 - Credit cannot be transferred from another school if that credit is also being counted toward another baccalaureate or graduate or professional degree. **Special Joint Degree Programs** are exceptions to this policy.
 - A-Level, IB, and/or other college course credit may not be removed from a transcript.
- **Credit Conversion:**
 - Courses taken at a institution on the quarter system: If you have taken courses at an institution that uses quarter credits, your quarter credits will be converted to semester credits. Each quarter credit hour typically converts to 0.67 semester hours.
 - Courses taken at institutions outside the United States: If you have taken courses at an institution outside the United States, the credits will be converted to U-M semester credit. The conversion differs based on the credit system of the country in which you took the courses. International students should be aware that the number of credits approved for transfer might differ significantly from what appears on your transcript from your previous institution.
- **Dual enrollment while in high school:** LSA allows transferable dual enrollment credits to count toward LSA requirements and degrees. Admissions will review dual enrollment credit for transferability and they will post accepted courses to a student's U-M transcript. This includes all dually enrolled courses taken at accredited institutions of higher education, regardless of format or location. Students should work with their LSA academic advisor to determine how transfer credits work toward their **degree requirements**.
- **Dual enrollment with another college or university:** To take a class or classes at another college or university while also enrolled at U-M in the same term, please review the information on the **Dual Enrollment with Another College or University webpage**.

Applying Transfer Credit Toward LSA Degree Requirements

- All transfer credits are applicable as elective credit, subject to the limit on total number of credits completed out-of-residence outlined in the **Residency Policy** and the limit on non-LSA credits outlined in the **Non-LSA Course Work Policy**.
- In certain circumstances, transfer credit can be used to satisfy individual college requirements or departmental requirements.

- **Major or Minor credit:** Courses that transfer as equivalent credit to existing LSA courses will typically count towards major requirements just as the U-M version would. Most departments limit the number of transfer credits that can be used toward their majors or minors. See each department's website for specific policies regarding transfer credit. Courses that transfer as departmental credit or interdepartmental credit must be approved by an advisor in your major's home department.
- **For Area Distribution:** Courses that transfer as equivalent credit to existing LSA courses will typically count towards the same distribution area as the U-M version. Courses that transfer as departmental credit must be approved by an LSA academic advisor to count towards a distribution area. Interdepartmental credit counts toward the corresponding distribution area (e.g. INTERSS 101X counts toward Social Science).
 - Michigan Transfer Agreement Courses: Courses that are part of each Michigan community college's Michigan Transfer Agreement curriculum have been pre-evaluated for distribution credit which is posted at <https://admissions.umich.edu/michigan-transfer-agreement>.
- **First-Year Writing Requirement:** The Sweetland Center for Writing maintains lists of **approved** and **not-approved** transfer courses. If your course is not listed on either the approved or not-approved list, you may complete an online **Petition for Transfer Course Credit**.
- **Quantitative Reasoning:** Courses transferred from another college or university, even those deemed direct equivalents of LSA courses that meet the QR requirement and transferred as equivalent credit (e.g., MATH 115), do not automatically count for QR credit except in the following circumstances:
 - Transferred courses (minimum three credits) of PHYSICS 125, 126, 140, 240 or any STATISTICS courses (except business statistics) receive QR/1 credit.
 - QR is considered fulfilled for all science, math, and computer science majors who transfer in all the prerequisites for their specific major.
*For other quantitative coursework, students may **petition the Academic Standards Board** to be allowed to satisfy the QR requirement with a class transferred from another institution.
- **Race & Ethnicity:** Transfer credit cannot be used to satisfy Race and Ethnicity except by successful petition after the completion of the course.
- **Language Requirement:**

For entering transfer students, the language requirement may be fulfilled by a course at the previous institution that has been approved for transfer by the appropriate department for transfer as credit equivalent to the fourth semester course at UM.

For current LSA students, once you enroll in LSA, you may not elect courses to meet the Language Requirement at another school unless the appropriate language department approves that plan in advance.
- Transfer credit can count toward LSA general requirements and departmental requirements upon approval of general or department advisors, regardless of how many credits the student has completed. For example, you may have 72 transferable credits from a former institution. All of these credits will post to your transcript and can be used to count for requirements, but only 60 of these credits can count towards the 120 credits needed to graduate.

Cross Campus Transfer

- Individuals who entered U-M as first-year students are eligible to make a cross campus transfer into or out of LSA after they have completed two full terms in their original U-M school or college. The application may be submitted during the second term of enrollment.
- Students who entered U-M as external transfer students may make a cross campus transfer into or out of LSA after at least one full term.
- Students who wish to make a cross-campus transfer after their first year of study should discuss their plans with an academic advisor; the advisor will assist in selecting an appropriate academic program for the second term of their first year. Cross-campus transfer students may receive credit for a maximum of 90 credits from the previous college or school. LSA residency requires that a student earn 30 credits in LSA.
- In order to begin the cross-campus transfer process, please **schedule an appointment** with an academic advisor.

Registration and Enrollment

Registration

All students must register to be officially enrolled in classes.

For **new undergraduate students**, course registration is completed during New Student Orientation.

Continuing undergraduate students are assigned a registration appointment time by the Office of the Registrar. At a student's registration appointment time they may begin registering for the upcoming term in Wolverine Access. Once registration has opened for a student, it will remain open until the end of the drop/add period (the end of the 3rd week for full-term classes and the end of the 2nd week for half-term classes).

It is recommended that students meet with a LSA general advisor and major/minor advisor (if applicable) every term to ensure appropriate classes are selected.

Students may not be simultaneously enrolled in two sections of the same course unless the course is specifically designated as repeatable for credit by a department or unit.

Credit Load (Full Time and Part Time Status)

The College does not require students to be enrolled full time, although this may be a requirement for financial aid or auto or health insurance.

	Number of Credits Elected
Full-time enrollment (full term)	12 - 18 credits
Part-time enrollment (full term)	11 or fewer credits
Full-time enrollment (half term)	6-9 credits
Part-time enrollment (half term)	5 or fewer credits

Tuition rates vary depending on full-time or part-time enrollment. Information from the Office of the Registrar may be found **here**.

Students seeking to take more than 18 credits during a full term and more than 9 credits during a half term must seek approval from their LSA general advisor.

Recommended Credit Load

We encourage students to take at least 15 credits in their first semester. Data shows that students who take 15 credits in both semesters in the first year end with higher GPAs and are more likely to graduate on time than their full-time peers who take fewer credits. A 12-18 credit load is considered full-time and costs the same amount of money.

Prerequisites

Prerequisite courses provide the background necessary for successful performance in a course.

There are two types of prerequisites:

- **Enforced prerequisites:** Required courses - Wolverine Access will not let you register without the prerequisite. Students must have satisfactorily completed or are currently enrolled in the prerequisites for the course or have a departmental override to enroll in the course.
- **Advisory prerequisites:** These are recommended but not enforced - Wolverine access will allow you to register without the prerequisite.

Closed Courses

Each class has a specific number of available spaces as determined by the department offering the course. Once enrollment reaches capacity, it will be listed as “closed.”

A student may register for a closed class only by obtaining an override (a permission entered in M-Pathways) for that class. Students obtain overrides from the department (rather than individual instructors) based on that department’s override policy. Please refer to the section on “Overrides” located below and check with your department regarding the procedures for granting overrides.

Waitlists

Most courses have a waitlist feature. If a course has reached capacity, a student may choose to add their name to the waitlist for that course. Some departments admit students off the waitlist by order; others prioritize certain populations of students, such as declared majors or students with senior status. Based on department rules, if a spot the student is eligible for opens, they will be notified via email that they have received an override for that course. Please note that overrides have an expiration date.

Instructions on how to add yourself to a waitlist may be found **here**.

Overrides

An override is an electronic permission that allows a student to enroll in a class they might not otherwise be able to. Overrides are typically used to allow a student to:

- register in a closed course from the waitlist
- register for a class that requires instructor or department consent
- register for a class in which the student does not have the required prerequisites

If a class is closed, the student should place themselves on the waitlist. Waitlist order is determined by department policy. In the case of a course that requires instructor or department consent, a student should reach out directly to the instructor or department. If a student is interested in registering for a course which they do not have the prerequisite, they should contact the department for approval.

Information on how to use an override may be found [here](#).

Time Conflicts

Students may not enroll simultaneously in two or more classes that meet at the same time or overlap even briefly. Time conflicts can impact your ability to be successful in a class and can cause disruptions to instructors and other students. Exceptions to this policy will be permitted only if one of the classes does not meet on a regular basis, such as an independent study, research, or internship that permits independent work. Students who register for conflicting/overlapping courses must seek permission from both instructors and are responsible for any issues or exam conflicts that arise from scheduling classes that overlap. Instructors are not obligated to accommodate time conflicts. Students may be dropped from courses that conflict.

Credit Hour Modification

Students may petition to elect a course for either more or fewer credits than the number printed in the **Undergraduate Course Catalog** and **LSA Course Guide**. Requests for additional credits must include a rationale and information on additional coursework the student will complete. Requests for fewer credits must include a rationale and information on what changes will be made to the course to justify a reduction in credits. In both cases, the request must be approved by the instructor and submitted prior to the drop/add deadline for the term. Final approval of petitions to adjust the credit hour for a course is made by the LSA Office of Student Academic Affairs.

Students may find the “Request for LSA Modification of Credit Hours” petition in **MyAdvising**.

Auditing a Course

Students are expected to take courses for credit. However, sometimes a student might want to attend a course without earning credit. This can be arranged as an official audit (also known as Visitor status).

The following expectations apply to a student auditing a course:

- Attend classes regularly and complete all course requirements (such as papers, lab work, tests, and the final exam)
- Pay regular tuition and fees for the course

The audited course will appear on the transcript with a grade of VI (Audit/Visitor). No credit or honor points are awarded for a grade of VI. If the student does not complete the course requirements, a grade of ED will be recorded. In this case, the term and cumulative GPAs will not be affected.

To request an official audit, a student must submit a completed Request for Audit Status form, available in **MyAdvising**, to LSA Student Records by the end of the drop/add period for that term.

Accuracy of Schedule

Students are responsible for the accuracy of their schedule and the courses for which they are registered. Any changes made to the schedule must be made by the student through Wolverine Access. It is important that students verify which courses they are registered for by the end of the **drop/add deadline** each term. Students also need to verify the accuracy of their optional pass/fail elections by the pass/fail deadline.

- Access to a course's course management system (such as Canvas) does not equal registration for the course.

Class Attendance

Students are expected to attend all classes. Students may be dropped from a course by the department for non-attendance. Students registered for a course that they do not intend to keep should drop it as soon as possible so that the space is available for other students.

While there is no college-wide attendance policy, departments or individual instructors may have such policies and should post them on their syllabi.

Note: Students who register for a course after it has begun may not be held responsible for attendance prior to registration but will be held responsible for completing any assessments (i.e. homework, quizzes, papers) that occurred prior to registration.

Students Representing the University in an Official Capacity

There may be instances when students must miss class due to their commitment to officially represent the university. These students may be involved in performing arts, scientific or artistic endeavors, or intercollegiate athletics.

While absence from class in these instances are excused, students are still responsible for any part of the course missed during their absence. Within reason, an instructor should provide appropriate arrangements to the student for missed work, providing such accommodations does not place unreasonable burden on the instructor or fundamentally alter the integrity of the course. When the absence coincides with an exam or other assignment due date, the options to make up that missed work may be limited and will be determined by the instructor within the boundaries of the course.

Religious-Academic Conflicts

It is the policy of the University of Michigan to make every reasonable effort to allow members of the University community to observe their **religious holidays** without academic penalty. Absence from classes or examinations for religious reasons does not relieve students from responsibility for any part of the course work required during the period of absence. It is the obligation of students to provide faculty with notice of the dates on which they will be absent for religious observance by the end of the drop/add deadline of the term.

Students who are absent on days of examinations or class assignments shall be offered an opportunity to make up the work, without penalty, unless it can be demonstrated that a make-up opportunity would interfere unreasonably with the delivery of the course.

Should disagreement arise over any aspect of this policy, the parties involved should contact the department chair, the dean of the school, or the student ombudsperson. Final appeals will be resolved by the provost.

Note: This policy does not cover travel days that do not fall on the religious holiday.

Illness or Other Unanticipated Circumstance

When a student misses class because of an illness or other circumstance (either planned or unanticipated), it is the student's responsibility to notify the instructor as soon as possible. In the case of documented short-term absence due to illness or other unanticipated event, instructors are encouraged to provide reasonable effort to accommodate the student in a way that maintains the integrity of the class. However, such accommodations are at the discretion of individual instructors.

Students who miss class due to illness or other events should be prepared to provide documentation verifying the cause of the absence.

LSA provides an **Illness or Absence Reporting Form** for students to self-report an illness and it is a centralized means of initial contact with all of a student's instructors. It is important for students to realize that this self-reporting does not constitute an excused absence and that instructors may request documentation to substantiate the absence. The email message that is generated to the student after self-reporting does point this out and indicates that it is the student's responsibility to contact their instructors directly about work missed during their absence.

Final Exams

The **final exam schedule** is published by the Office of the Registrar each term. Instructors may not depart from the official schedule.

- Final assessments may not be scheduled by instructors during regular instructional class time (including the last day of class) regardless of whether they are called "final exams."
- Final assessments may not be scheduled during Study Days.
- Final assessments scheduled for one date and time within the Final Examination Period may not be moved to another date without prior approval of the Office of the Registrar.
 - If the instructor receives permission to change the final exam time, any student who wishes to take the exam at the originally assigned time must be allowed to do so.
- Individual students needing an alternative final exam time may be accommodated on an individual basis by the instructor.
 - Time conflicts between final exams as a result of a student enrolling for two courses that meet at the same time do not need to be accommodated by instructors.
- If any student is assigned four final examinations during the same day, the student may request rescheduling of one exam from the Office of the Registrar.

Add/Drop

Students may adjust their schedules as needed each term during the drop/add period (the first three weeks of a full term and the first two weeks of a half term). Please see the **Registrar's Calendar** for drop/add deadline dates. Changes to elections are done by students in Wolverine Access.

Note: While students may freely drop a class during the drop/add period, some departments and instructors do not allow students to add a course after the semester has begun, regardless of whether it is possible to add the course using Wolverine Access. It is recommended that students connect first with the instructor of the course. Students are responsible for making up any course work or

assessments that occurred prior to course registration.

Late Drop

After the drop/add deadline, students may request a late drop for a course using Wolverine Access. Ws are posted for courses dropped during this period, regardless of reason for the drop. Students may late drop individual courses through the late drop deadline (approximately $\frac{2}{3}$ of the way through the calendar). Please see the LSA Academic calendar for the late drop/add deadline dates.

To request a late drop a student must:

1. Go to their Backpack/Registration page in Wolverine Access
2. Select the DROP tab at the top of the screen
3. Select the class to drop, click "Proceed to Step Two," then click "Finish Dropping"
4. Click the button "Request Late Drop" to the right of the red "X"
5. Answer the questions and click "Submit Request" at the bottom
6. Click "OK" on the confirmation page. Students will receive a confirmation email.

When students answer the questions in Step 5, they are acknowledging their responsibility to research any and all potential impacts on progress with the referenced offices (applicable phone numbers provided). For academic progress questions, students are strongly encouraged to meet with an academic advisor to discuss the request before submitting. Fees are not reduced even if a student drops below 12 credits (six in a half-term).

First Term of Enrollment	Term Ws are Expunged From:
Fall	Fall
Winter	Winter
Spring	Fall
Summer	Fall

Students interested in dropping all of their classes at any point in the term would need to request a term withdrawal.

Late Add

After the drop/add deadline, students may request a late add for a course using Wolverine Access. Students may late add individual courses through the late add deadline (approximately $\frac{2}{3}$ of the way through the calendar). Please see the LSA Academic calendar for the late drop/add deadline dates. The student must have an override from the department for the late add to be processed.

To request a late add a student must:

1. Go to their Backpack/Registration page in Wolverine Access
2. Select the ADD tab at the top of the screen, and select the course to add "Proceed to Step Two," then click "Finish Registering."
3. Click the button "Request Late Add" to the right of the red "X".
4. Answer the questions and click "Submit Request" at the bottom.
5. Click "OK" on the confirmation page. Students will also receive a confirmation email.

After the late add/drop deadline, individual courses may not be added or dropped. However, a student with extenuating circumstances may petition to request a late add or drop. Such

requests are rarely granted and only in the case of exceptional circumstances. Petitions for a retroactive drop or add may be submitted no later than one year past the end of the term of the course in question. Students may find such petitions in **MyAdvising**.

Term Withdrawal

A term withdrawal is when students remove themselves from all classes in a semester. A student may discontinue all of their courses for the term by withdrawing from the term. The process for withdrawing from the term varies based on the point in the term the withdrawal is requested.

Prior to the term:

If a student has not registered for the term, they do not need to register as they are disenrolling by not registering. There are no formal “withdrawal” or “leave of absence” procedures. If the student leaves in good academic standing, they are eligible for readmission at any time.

If a student has registered for the term, **they may disenroll by dropping all courses in Wolverine Access.** Students may also disenroll by contacting the Office of the Registrar prior to the start of the term to disenroll. E-mail the request to wolverineservices@umich.edu (please include full name, id number and term).

During the drop/add period (through Week 3 for full terms and through Week 2 for half terms):

Once the term has started, a student may request disenrollment from the term by completing the Request for Disenrollment form available in **MyAdvising**. No registration will appear on the student’s transcript for that term. A student whose disenrollment occurs after the start of the semester (and before the end of the drop/add period) will be assessed a disenrollment fee plus a registration fee. Consult the Office of the Registrar for fee amounts.

After the drop/add period and through the last day of class:

After the drop/add period, a student may request a term withdrawal for any reason through the last day of class. To do so, the student must complete the “Request for Term Withdrawal” form available in **MyAdvising**. A term withdrawal after the drop/add deadline results in the “withdrew” notation to appear on the transcripts. A W grade will be assessed to all courses for the term of withdrawal, including those students in their first term at the University of Michigan. Neither credits toward a degree program nor honor points are awarded for Ws. The amount of tuition due varies based on the Office of the Registrar’s tuition calendar.

After the last day of class:

A term withdrawal after the last day of class is considered a **retroactive term withdrawal**. Retroactive term withdrawals are rarely granted and only in cases where extenuating non-academic circumstances prevented the student from being able to complete a withdrawal prior to the last day of class. Documentation is required. Students seeking a retroactive term withdrawal should connect with their general academic advisor and email their petition to LSA.Academic.Policy@umich.edu.

For information on drops (withdrawing from an individual course rather than the term) please see Add/Drops.

Returning Students

Students who previously attended the University of Michigan-Ann Arbor and are interested in returning may follow the steps below. We encourage all returning students to schedule an appointment with their academic advisor to develop a re-entry plan. You may schedule through **MyAdvising** or through the links below:

Newnan Academic Advising Center
Comprehensive Studies Program
Honors Program
Residential College

Re-Enrollment

Students who previously attended the University of Michigan-Ann Arbor, have not been deactivated, and have been away for less than two years may request a registration appointment for an upcoming Fall/Winter/Spring/Summer term from the Registrar's Office. Information regarding this may be found **here**.

Reactivation

Students who previously attended the University of Michigan-Ann Arbor but have not enrolled in the past two years OR have been deactivated may **apply for reactivation**. Reactivation may be requested for the Fall or Winter terms. Reactivation into Spring or Summer terms will only be considered in special circumstances.

Deadlines:

- July 1 for Fall term reactivation
- Nov 1 for Winter term reactivation

If a student has done academic work out of residence since leaving the College, official transcript(s) of that work should be submitted to the Office of Undergraduate Admissions at transcripts@umich.edu.

Reinstatement

Students who previously attended the University of Michigan-Ann Arbor and were academically suspended or recessed may **apply for reinstatement** after a one year absence from the University of Michigan - Ann Arbor. Reinstatement may only be requested for the Fall or Winter terms. Reinstatement into Spring or Summer terms will only be considered in special circumstances.

Deadlines:

- July 1 for Fall term reinstatement
- Nov 1 for Winter term reinstatement

Students seeking reinstatement must also meet with a Student Success Advisor prior to the start of the term of re-enrollment to develop a re-entry plan. A reinstated student's registration may be canceled if a meeting with a Student Success Advisor does not occur.

If a student has done academic work out of residence since leaving the College, official transcript(s) of that work should be submitted to the Office of Undergraduate Admissions at transcripts@umich.edu.

Information for International Students

International students on temporary U.S. visa status (F-1 or J-1) who have missed a full year must contact the International Center to have their visa status updated.

Grading, Transcripts, and Academic Records

Grades and Grading

The College utilizes three systems of grading: a letter system, a credit/no credit system, and an optional pass/fail system.

Letter System

The letter system is the default system consisting of the following grades: A+, A, A-, B+, B, B-, C+, C, C-, D+, D, D-, and E.

Grades of A+ through D- earn both credit and honor points. A grade of E earns honor points but does not earn credit.

Letter grades are reported and recording according to the following scale:

Letter Grade	Honor Points
A+	4.0
A	4.0
A-	3.7
B+	3.3
B	3.0
B-	2.7
C+	2.3
C	2.0
C-	1.7
D+	1.3
D	1.0
D-	0.7
F	0.0

In the letter system, all grades are included in the calculation of the grade-point average (GPA) and the minimum cumulative GPA required for graduation is a 2.0.

- Courses required for a major or minor - or in the major or minor field of study must be taken for a grade and cannot be elected pass/fail.
- Students must have a minimum of 90 graded credits toward the 120 credits required for a degree.

Pass/Fail System

A student may elect a course on a Pass/Fail grading basis. Instructors are not notified of pass/fail elections. They will report grades as usual (A+ through E) and the registrar will then enter a grade of P if a grade of "C-" through "A+" and a grade of F if a grade less than "C-" had been reported.

Please note the following regarding Pass/Fail elections:

- Students have through the late drop/add/pass/fail deadline (approximately $\frac{2}{3}$ through the semester) to elect pass/fail grading in Wolverine Access. A change in grading pattern from a letter grade to optional pass/fail is not permitted after this deadline.
- Courses elected pass/fail earn credit but do not earn honor points. Neither "Pass" or "Fail" grades enter into the calculation of the term or cumulative grade point average.
 - P (Pass): credit, no honor points
 - F (Fail): no credit, no honor points
- Any course may be elected pass/fail EXCEPT:
 - Courses required for a major or minor, elective courses for a major or minor, and courses in the major or minor subject/department
 - The final course used to fulfill the language requirement
 - If such courses are elected pass/fail they will be uncovered by the LSA Office of Student Academic Affairs.
- Students must have a minimum of 90 graded credits toward the 120 credits required for a degree.

Credit/No Credit System

The credit/no credit system is used only in courses specifically approved by the LSA Curriculum Committee. Experiential and field experiences courses are examples of courses that may utilize credit/no credit grading. Such courses are designated in the **LSA Undergraduate Course Catalog** and the **LSA Course Guide**.

- Credit (CR) is posted on the transcript if the instructor of a mandatory Credit/No Credit course believes that the amount and quality of a student's work is such that it deserves credit.
 - No honor points are earned with a grade of CR (Credit)
- NC (No Credit) is posted on the transcript if the instructor believes that a student's work does not justify the awarding of credit.
 - No credit or honor points are earned with a grade of NC (No Credit)
- Courses using the credit/no credit system may be used to fulfill a major or minor requirement.
- Courses using the credit/no credit system may not be elected as a letter or pass/fail grade.

Miscellaneous Grades

NR (No Report) and NG (No Grade)

NR (No Report) grades should only be used in the following situations:

- For a student has a pending academic misconduct case. The NR serves as a placeholder grade until the academic misconduct case is resolved.
- For a student hospitalization/serious issue in which you've received communication from our office such as through an instructor notification or through the Dean of Students Office. This allows the student time to make a decision about how to proceed with the course.

NR grades should not be used to indicate a student has stopped attending/not completed the

course outside of the conditions above. This often prevents a student from getting much-needed support.

If a NR grade is not resolved by the end of the 4th week of the next full-term of enrollment, it will lapse to a grade of ED, which impacts GPA in the same way as a grade of E.

NG (No grade) is recorded when a student has been registered into a class after the web grade rosters have been sent to the instructor. If the NG grade is not resolved by the end of the 4th week of the next full-term of enrollment, it will lapse to a grade of ED, which impacts GPA in the same way as a grade of E.

Grading for a Two-Term Course

A few courses (e.g., senior Honors thesis courses, Global Course Connections, or some Biological Sciences research courses) are approved as "two-term" sequences. In these specially approved cases only, an instructor can report a Y grade at the end of the first-term course to indicate work in progress. When a final grade is reported at the end of the second term, that final grade is posted for both terms' elections.

In cases where a Y grade is reported for a course which is not approved to extend for two successive terms, an I (Incomplete) is posted on the transcript and the course is subject to the regular deadline for incompletes.

Grade Point Average

The College calculates both a term grade point average (GPA) and a cumulative GPA at the end of each term of enrollment. GPA is used to determine academic standing, eligibility to participate in certain programs, and academic honors.

- The Term Grade Point Average is determined by dividing the total number of Michigan Semester Hours (MSH) elected during a term into the total number of Michigan Honor Points (MHP) earned during the same term.
- The Cumulative Grade Point Average is determined by dividing the total number of Michigan Semester Hours (MSH) into the total number of Michigan Honor Points (MHP) earned
- Grades of P, F, CR, NC, S, U, NR, I, Y, and VI are not used in computing GPA.
- Grades associated with transfer credit are not used in computing.
 - The only exception to this rule is for courses elected on the Dearborn and Flint campuses.

Minimum GPA: It is required that a student earn a minimum cumulative 2.00 GPA and a minimum 2.00 GPA in the students major and minor departments for an undergraduate degree.

Graded and Non-Graded Coursework

LSA students must complete a minimum of 90 graded credits toward the 120 credits required for a degree.

- Graded credits: credits earned in courses in which a letter grade (A through E) is recorded on the transcript. Graded credits earn honor points.
 - Test credit (AP, IB, etc) as well as transfer credit for which students earned a grade at another institution is considered graded credit.

- Non-Graded credits: credits earned in courses in which a P/F, CR/NC, or S/U is recorded on the transcript. Non-graded credits do not earn honor points.

Note: "P" courses from COVID grading terms (Winter 2020 through Summer 2021) also count toward the 90 graded credits.

Non-Graded Courses (P/F, CR/NC, S/U)

Students may count a maximum 30 non-graded credits toward the 120 credits required for a degree. Non-graded credits are earned in courses for which no letter grade (A through E) is recorded on the transcript. Only those non-graded credits actually earned are counted as part of the total number of non-graded credits applicable toward a degree.

1. A student cannot choose to elect a course by the CR/NC and S/U grading patterns; the optional non-graded pattern is P/F.
2. Non-graded courses earn credit toward a degree but not honor points. Therefore, "Pass" (or "Credit") grades do not enter into the computation of the term or cumulative grade point averages.
3. *A change in grading pattern from a letter grade to optional pass/fail is not permitted after the last day of class.* Additionally, from Weeks 4 through the last day of class of a full term (Weeks 3 through the last day of class of a half-term), students can only submit a request to switch from "graded" to P/F one time; they are unable to move from P/F back to "graded." Exceptions to this policy are not granted.
4. All grading pattern choices must be modified through the registration system.
5. *The College holds students responsible for ensuring the accuracy and completeness of their class schedule.*
6. Instructor approval is not required for a choice in the elected grading pattern nor should the instructor be informed of such a choice. Instructors report letter grades (A through E) for all students in their courses, except in mandatory CR/NC courses. In the case of a student who has chosen to elect a course "Pass/Fail," the Office of the Registrar converts the letter grades according to the following policies:
 1. Grades of A through C– are posted on a transcript as "P" (Pass); credit toward a degree is earned.
 2. Grades of D through E are posted on a transcript as "F" (Fail); no degree credit is earned.
7. In the case of an incomplete course elected "Pass/Fail," credit is posted only when the work has actually been completed and a grade of at least C– has been reported. "Pass/Fail" courses which are not finished lapse to "Fail," although the term and cumulative grade point averages remain unaffected.
8. If the instructor of a mandatory Credit/No Credit course believes that the amount and quality of a student's work is such that it deserves credit, CR (Credit) is posted on the transcript. If the instructor believes that a student's work does not justify the awarding of credit, NC (No Credit) is posted on the transcript. Courses offered mandatory Credit/No Credit are designated in the course listings.
9. Students who have transferred "non-graded" credit to the College must count that credit as part of the maximum 30 hours of "non-graded" credit which may be counted toward an LSA degree. Advanced Placement credit as well as transfer courses for which students earned grades at another institution do not count against the 30-credit limit.

10. Classes at Camp Davis may not be elected on a Pass/Fail basis (effective Spring Term 2012).
11. Non-graded courses *may* be included in a distribution plan.
12. Pass/fail courses may not be used to fulfill a major or minor requirement.
13. Experiential and Directed Reading/Independent Study courses that are graded on a Credit/No Credit or Satisfactory/Unsatisfactory basis may be included in a major program.
14. The final course in a sequence used to fulfill the Language Requirement may not be elected on a Pass/Fail basis. (Effective for all students admitted to the College in Fall Term, 1995 and thereafter.)
15. In computing the grade point average for honorary societies, the reported *letter grades* for "non-graded" elections are computed into the cumulative grade point average.
16. No course elected "Pass/Fail" will receive the Honors notation on the transcript or be counted as an "Honors" course for the Sophomore Honors Award.
17. A student may pay a special fee set by the Registrar's Office and request a specially prepared appendix to the transcript on which the original grades submitted for all courses elected "Pass/Fail" are listed.

Incompletes

An Incomplete (denoted on the transcript as "I") is a temporary grade that indicates a course has not yet been completed. Incompletes should only be granted when:

- the student has extenuating non-academic circumstances prohibiting the completion of the course (serious illness, car accident, death of a family member, etc)
- the remaining amount of work in the course is small (such as a final exam or paper)
- and the student's standing in the course is at least a C- or higher.

Instructors have discretion in granting an incomplete and should only give consideration if the above criteria is met AND they are willing to support the student in the completion of remaining course requirements. An incomplete grade should not be given without being requested by the student. Incompletes should not be used to allow a student to retake the course in a future term. Additionally, an Incomplete grade should not be used as a substitute for a failing grade or withdrawal.

If an incomplete is agreed upon, both the student and instructor should mutually understand the reasons for the "I" grade and the expectations and timelines for completion of work. It is recommended that the student and instructor have a written agreement of work completed and timeline.

Time frame for completion

The student should plan to complete the work as soon as possible; however, all required work must be completed no later than the end of the 4th week of the next full term of enrollment. Requests for extensions of time may be petitioned to the LSA Office of Student Academic Affairs and require approval of the instructor.

If the student does complete the work within the allowed time period, the final grade will post to the transcript, with the I remaining next to the grade (e.g. IA-, IC+). If the incomplete is not finished the Incomplete grade will automatically change to an ILE (Incomplete Lapsed to E) which factors into the grade point average as an E grade and no credit is received. For students who have elected pass/fail grading, an unfinished Incomplete will lapse to ILF, which has no impact on

GPA.

Grade Changes

In the event of a grading error or incomplete grade, an instructor may submit a grade change request in Wolverine Access.

Grade changes should not be given by allowing an individual student to submit extra work or revising an assignment or exam if that opportunity was not given to all students in the course.

If the grade is being changed because the work was submitted after grades were due and no "incomplete" grade was originally given, the grade will be posted with an "I" as long as the work was completed during the incomplete deadline period.

When the instructor is changing a grade from "incomplete", they must include the date the student submitted their completed work.

Grade Grievance Policy

Introduction

Instructors are expected to set fair and consistent grading procedures for their respective courses. The following policy provides students a means to contest a final course grade received in a credit-bearing course if a student believes fair and consistent grading procedures have not been followed. A final grade is only subject to review when 1) a procedural error has been discovered in the calculation or recording of a grade, or 2) there is a concern that the grade was not fairly given. Disagreeing with grading policies or an instructor's assessment of work is not a basis for a grade grievance.

Occasionally, the basis of a student's grade grievance is that the student was subjected to harassment or discrimination. It is not the function of the Grade Grievance process to evaluate claims of discrimination or harassment. Please contact the **Office of Diversity, Equity & Inclusion** (ODEI), and the Associate Chair of Undergraduate Studies (ACUS) or Director of Undergraduate Studies (DUS) in the department in question will evaluate whether the grade grievance should be paused until the OIE matter is resolved.

The steps for the grade grievance process are outlined below.

Step 1: Seek Resolution with the Instructor

As the first step in the grade grievance process, the student should inquire about the accuracy of their final grade to the lead instructor of the course. This initial inquiry should take place **within the first 15 university business days** of the beginning of the following winter term for courses taken during the fall semester, and within the first 15 university business days of the beginning of the following fall semester for courses taken during the winter, spring, or summer sessions. In the case of an incomplete or a grade that is submitted after the start of the next full term, the initial inquiry should take place within the first 15 university business days after the official posting of the grade.

If, after this inquiry, the student is not satisfied with the instructor's response, the student may choose to initiate a formal grade grievance. If the lead instructor has left the University, is on

approved leave, or does not respond to the student after a reasonable effort (within 10 business days), the student may also proceed directly to Step 2 and initiate a formal grade grievance.

Step 2: Submit a Formal Grade Grievance

To begin the formal grade grievance process the student must submit to the Associate Chair of Undergraduate Studies (ACUS) or Director of Undergraduate Studies (DUS) [**refer to the LSA Grade Grievance Department Contact list**] a written statement that includes the following information:

- the basis for the allegation of arbitrary grading, including specific evidence (e.g. course syllabus, graded work) that supports the allegation
- a summary of the outcome of the initial inquiry to the course instructor, indicating what aspects are in dispute and any documentation to support the initial inquiry with the instructor
- the desired outcome for the grievance

This written statement must be submitted **within the first 30 university business days** of the beginning of the following winter term for courses taken during the fall semester, and **within the first 30 university business days** of the beginning of the following fall semester for courses taken during the winter, spring, or summer sessions. In the case of an incomplete or a grade that is submitted after the start of the next full term, the written statement must be submitted within the first 30 university business days after the official posting of the grade.

If any of the above deadlines are not met by the student, the grievance will be considered invalid and closed, unless, due to extenuating circumstances, the office of the LSA Assistant Dean of Undergraduate Education and Student Academic Affairs grants an extension of time. If you believe there was an extenuating circumstance (i.e. hospitalization, extended leave from health reasons) please contact the LSA Office of Student Academic Affairs (lisa.saa.office@umich.edu) for more information.

Upon receipt of the written complaint in Step 2, the ACUS/DUS will notify the office of the LSA Assistant Dean of Undergraduate Education and Student Academic Affairs of the complaint within 5 business days of receipt of the complaint. The ACUS/DUS will then ask the instructor to provide a written summary explaining how the final grade was determined and responding to the specific claims made by the student. After receiving the response from the instructor, the ACUS/DUS will determine if sufficient evidence exists to convene the Department's Grade Grievance Committee. If the ACUS/DUS determines that there is insufficient evidence for the grade grievance, the matter is considered closed, and the original grade stands. The ACUS/DUS will communicate this in writing to the student **within 15 university business days** from receipt of the complaint. A copy of the response should also be sent to the office of the LSA Office of Student Academic Affairs at the same time.

Step 3: Formal Grade Grievance Hearing

If the ACUS/DUS determines that the grade grievance should proceed, an appropriate Departmental Grade Grievance Committee will be selected, and a date for a formal hearing with the Grade Grievance Committee will be set. The hearing should occur no more than 60 days after submission of the complaint. All parties (student, instructor, and committee) will be provided with copies of the written student complaint and the instructor's summary in advance of the formal hearing. During the formal hearing, the student will be asked to first present the basis of their

complaint; the instructor will then be asked to present their explanation for how grades were determined. Following an open period of questions to all parties, the formal hearing will be adjourned.

The Grade Grievance Committee will then have **ten university business days** to determine its recommendation and submit a written report to the ACUS/DUS.

- If the Grade Grievance Committee decides that a grade change is not warranted, the ACUS/DUS will convey this in writing to the student and the instructor. The original grade will stand and the matter is considered closed.
- If the committee recommends a grade change, the ACUS/DUS will communicate that decision directly to the instructor. The instructor will then be asked to respond in writing within five university business days to the ACUS/DUS indicating whether or not they will abide by the Grade Grievance Committee's recommendation.
 - If the instructor agrees to a grade change, the ACUS/DUS will in writing inform the student of the instructor's decision and the student's final course grade will be changed. The matter is considered closed.
 - If the instructor does not accept the Grade Grievance Committee's recommendation to change the final grade, the original grade will stand. A final course grade rests solely with the instructor and, as such, a course grade cannot be changed without the instructor's consent. When this occurs, the ACUS/DUS will convey in writing this decision to the student. The matter is considered closed. There is no appeal beyond the Department.
- A report stating what procedures were followed and what decision was reached will be sent to the office of the LSA Office of Student Academic Affairs by the ACUS/DUS **within 5 business days** after the conclusion of the review process.

Updated: Summer 2021

(For grade grievance procedures for courses taken prior to Winter 2021 please reach out to individual departments.)

Distinction Levels

Distinction is awarded based on class rank at the time of degree conferral. GPA ranges for distinction are determined at the end of each May based on the cumulative GPAs of LSA's graduating cohorts in that academic year. These ranges are then used for the graduating classes of that calendar year (May, August, and December).

In order to be eligible for distinction, students must have completed at least 58 credits in residence with at least 45 of those credits graded.

- Highest Distinction: Awarded to students who rank in the top 3% of their class
- High Distinction: Awarded to students who rank in the top 10% of their class but below the top 3%
- Distinction: Awarded to students who rank in the top 25% but below the top 10%

Historical Distinction Levels

May, August, and December 2023 graduates (excluding WN 2020 GPA):

Highest Distinction: 3.992 - 4.000

High Distinction: 3.955 - 3.991

Distinction: 3.875 - 3.954

May, August, and December 2022 graduates (excluding WN 2020 GPA):

Highest Distinction: 3.986 - 4.000

High Distinction: 3.935 - 3.985

Distinction: 3.842 - 3.934

May, August, and December 2021 graduates (excluding WN 2020 GPA):

Highest Distinction: 3.973 - 4.000

High Distinction: 3.903 - 3.972

Distinction: 3.789 - 3.902

May, August, and December 2020 graduates (excluding WN 2020 GPA):

Highest Distinction: 3.962 - 4.000

High Distinction: 3.876 - 3.961

Distinction: 3.737 - 3.875

May, August, and December 2019 graduates:

Highest Distinction: 3.957 – 4.000

High Distinction: 3.865 – 3.956

Distinction: 3.722 – 3.864

May, August, and December 2018 graduates:

Highest Distinction: 3.950 – 4.000

High Distinction: 3.856 – 3.949

Distinction: 3.708 – 3.855

May, August, and December 2017 graduates:

Highest Distinction: 3.949 – 4.000

High Distinction: 3.857 – 3.948

Distinction: 3.705 – 3.856

May, August, and December 2016 graduates:

Highest Distinction: 3.941 - 4.000

High Distinction: 3.838- 3.940

Distinction: 3.685 - 3.837

May, August, and December 2015 graduates:

Highest Distinction: 3.951 - 4.000

High Distinction: 3.845 - 3.950

Distinction: 3.692 - 3.844

May, August, and December 2014 graduates:

Highest Distinction: 3.931 - 4.000

High Distinction: 3.824 - 3.930

Distinction: 3.669 - 3.823

May, August, and December 2013 graduates:

Highest Distinction: 3.940 - 4.000

High Distinction: 3.847 - 3.939

Distinction: 3.686 - 3.846

May, August, and December 2012 graduates:

Highest Distinction: 3.940 - 4.000

High Distinction: 3.837 - 3.939

Distinction: 3.688 - 3.836

May, August, and December 2011 graduates:

Highest Distinction: 3.924 - 4.000

High Distinction: 3.837 - 3.923

Distinction: 3.682 - 3.836

May, August, and December 2010 graduates:

Highest Distinction: 3.928 - 4.000

High Distinction: 3.825 - 3.927

Distinction: 3.670 - 3.824

May, August and December 2009 graduates:

Highest Distinction: 3.927 - 4.000

High Distinction: 3.809 - 3.926

Distinction: 3.644 - 3.808

May, August and December 2008 graduates:

Highest Distinction: 3.917 - 4.000

High Distinction: 3.819 - 3.916

Distinction: 3.664 - 3.818

May, August and December 2007 graduates:

Highest Distinction: 3.930 - 4.000

High Distinction: 3.821 - 3.929

Distinction: 3.649 - 3.820

May, August and December 2006 graduates:

Highest Distinction: 3.925 - 4.000

High Distinction: 3.819 - 3.924

Distinction: 3.671 - 3.818

May, August, and December 2005 graduates:

Highest Distinction: 3.917 - 4.000
High Distinction: 3.794 - 3.916
Distinction: 3.621 - 3.793

May, August, and December 2004 graduates:

Highest Distinction: 3.920 - 4.000
High Distinction: 3.782 - 3.919
Distinction: 3.593 - 3.781

May, August, and December 2003 graduates:

Highest Distinction: 3.908 - 4.000
High Distinction: 3.768 - 3.907
Distinction: 3.584 - 3.767

May, August, and December 2002 graduates:

Highest Distinction: 3.907 - 4.000
High Distinction: 3.771 - 3.906
Distinction: 3.598 - 3.770

May, August, and December 2001 graduates:

Highest Distinction: 3.908 - 4.000
High Distinction: 3.775 - 3.907
Distinction: 3.574 - 3.774

May, August, and December 2000 graduates:

Highest Distinction: 3.889 to 4.000
High Distinction: 3.755 to 3.888
Distinction: 3.551 to 3.754

May, August, and December 1999 graduates:

Highest Distinction: 3.907 to 4.000
High Distinction: 3.778 to 3.906
Distinction: 3.582 to 3.777

Honors and Awards

Term Specific Honors and Awards

James B. Angell Scholars

Students who achieve an “A” record (all grades of A+, A, or A-) for two or more consecutive terms are recognized as James B. Angell Scholars. The student must have taken a minimum of 14 credit hours each term, including at least 12 credits elected on a graded (A-E) basis. Recipients of this award are recognized during Honors Convocation according to the number of consecutive terms they have earned the Angell Scholar designation.

If a student earns all A’s in a non-qualifying term, it will be ignored in the consecutive term count, but it will not break the Angell sequence. If the student receives a grade other than A+, A, A-, CR, P, S, W, or Y (regardless of the number of credit hours elected), the consecutive term sequence is broken.

The names of all James B. Angell Scholars will appear in the Honors Convocation printed program, and the award designation will appear on the student’s transcript on the day of the Honors Convocation.

University Honors Designation

The University Honors designation is awarded to students who earned a 3.5 grade point average or higher during a term. The student must have taken a minimum of 14 credit hours during the term, including at least 12 credits elected on a graded (A-E) basis. Students who achieve University Honors designation for both the winter term and fall term are recognized at Honors Convocation. Seniors who achieve University Honors for at least one of these two terms are recognized at the Honors Convocation.

William J. Branstrom Award

First-year students in their first-term who rank in the upper five percent of their class within their school or college are awarded the William J. Branstrom Freshman Prize. The student must have taken at least 14 graded (A-E) credits during the fall term to be eligible for this award. Advanced placement credit does not disqualify a student for consideration of this award. Recipients of this award are recognized during Honors Convocation.

The names of all William J. Branstrom Award winners will appear in the Honors Convocation printed program, and the award designation will appear on the student’s transcript on the day of the Honors Convocation. Recipients of this award will also receive a book prize. For details regarding book prize selection, please visit the **Branstrom Book Prize Detail page**.

Honors Convocation

Honors Convocation is an annual celebration where undergraduate students who have received one or more of the three awards above are recognized for their distinguished academic achievements. It is one of the University’s most important academic traditions.

Other Honors and Awards

Department Awards

Department Awards recognize superior academic performance in the major. Consult the website of the department of your major.

National Honor Societies

Honor Societies are organizations that exist in order to encourage and recognize excellence in student scholarship and leadership. A notation is posted on a student's transcript by the Registrar's Office for induction to **Phi Beta Kappa**, **Phi Kappa Phi**, and **Tau Beta Pi**. Induction into other honor societies on the U-M Ann Arbor campus is not noted on a student's transcript.

Student Honor Societies

The **University of Michigan's Maize Pages** include listings of Student Honor Societies.

LSA Returning Student Scholarship

LSA's Scholarship Office provides information about eligibility and requirements for **LSA Returning Student Scholarships**.

Scholarships Requiring U-M Endorsement

These national scholarship programs accept applications only from students who have been endorsed by the University of Michigan. There is an internal competition for most of these awards and the UM deadlines are set considerably earlier than the national deadlines to accommodate this process. For detailed information regarding these scholarships, see the **Provost's Council for Student Honors** website. Information about awards specifically for LSA Honors students is available on the **LSA Honors Program website**.

Student Records Policy/FERPA

All LSA students have an academic advising file containing placement test scores, unofficial copies of academic records, correspondence, and notes which academic advisors or other student-facing staff have made about their conversations with a student. In accordance with the **Family Educational and Rights Privacy Act (FERPA)**, access to individual student LSA advising files is restricted to university academic advisors, student-facing staff, and others with a legitimate educational interest to review the specific record. FERPA governs both the release of, and access to, student records in the College and University.

FERPA grants students the right:

- to inspect and review their education records;
- to request amendment of the student's education records that the student believes are inaccurate, misleading, or otherwise in violation of the student's privacy rights under FERPA;
- to consent to disclosures of personally identifiable information contained in the student's education records, except to the extent that FERPA authorizes disclosure without consent.

LSA students have the right to examine most materials in their own academic files in accordance with **university FERPA guidelines**. Students who wish to review their advising files may do so by scheduling an appointment with an academic advisor. Students may request copies of most

information in their academic files. They also may add clarifying notes and other materials to their advising files. Requests for deletions and additions of material from an advising file should be addressed in writing to the LSA Office of the Assistant Dean (oad.lsa@umich.edu).

The release of student information to a third party, including parents, requires the written permission of the respective student. LSA students can use the online **Student Release of Information** form to authorize release of their LSA advising record and related academic information to third parties. Any questions about access to student records should be directed to the LSA Office of the Assistant Dean.

Dean's Recommendation Forms

Graduate schools, professional schools, prospective employers and some programs (e.g. study abroad, military officer forms) may require a dean's recommendation as part of the application or admission process. A "dean's recommendation" might also be called a dean's letter, certification, or letter of good standing. Students should review their applications to assess the need for a dean's recommendation.

The LSA Office of the Assistant Dean for Undergraduate Education and Student Academic Affairs is responsible for providing dean's recommendations on behalf of the college for all LSA students. Currently enrolled students and alumni with a valid umich.edu email address may find the form to request a dean's recommendation **here**. Alumni and inactive students without valid umich.edu email addresses may use the form **here**.

All dean's recommendations are sent electronically. Processing can take up to three weeks at periods of peak demand.

Note: If a form requires the evaluation of intended course elections elsewhere — for example, if you are applying to a study abroad program which asks how your elections there might fulfill degree requirements here — you first need to meet with your academic advisor to discuss your program goals and plans.

Transcripts and Notations

The Academic Record is the official record of a student's course elections, grades, and credits earned toward a degree. Since the academic record is a permanent record of a student's academic performance, it must be correct. Students who believe an error has been made on their academic records should contact the LSA Student Records (lsa.student.records@umich.edu).

LSA academic records are maintained by the Records and Enrollment Department in the Registrar's Office (2200 Student Activities Building).

A student wishing to have a transcript of the academic record sent to another college or university or to an employer can place an order online from **Wolverine Access**. You will need a Uniqname and university password and should receive a confirmation number. Requests with paper attachments or needing special services should be brought to a Student Services site, 2200 Student Activities Building.

Mailed or faxed requests may be sent/faxed to:

Transcript and Certification Office
University of Michigan
2200 Student Activities Building
515 E. Jefferson Street
Ann Arbor 48109
Fax: (734) 764-5556

All requests should include dates of attendance and a student identification number. A transcript of the academic record bearing the official seal of the University of Michigan and the signature of the Registrar is forwarded *directly* to the institution or person specified by the student, assuming there is no outstanding financial commitment from the student to the University. There is no fee for official transcripts. A student has the option of ordering a paper official transcript or an electronic (PDF) official transcript (if the academic record is entirely electronic). A student may request and receive an unofficial transcript, on demand, at a student services site: 2200 Student Activities Building. The unofficial transcript contains additional information not included in the official transcript. It should not be used in lieu of an official transcript for the purposes of admission or employment. A copy of your unofficial transcript can be obtained from **Wolverine Access**.

A student may pay a fee set by the Registrar's Office and request a special transcript including an appendix listing the original grades submitted for all courses elected "Pass/ Fail."

A specially prepared transcript indicates which of these options has been chosen. *A request for a special transcript does not permanently revise the original academic record.* See the **Office of the Registrar** for details.

Summary of Transcript Notations

Pass/Fail

P (passed)

F (failed)

credit, no honor points
no credit, no honor
points

Credit/No Credit

CR (credit)

NC (no credit)

credit, no honor points
no credit, no honor
points

Satisfactory/Unsatisfactory

S (satisfactory)

U (unsatisfactory)

credit, no honor points
no credit, no honor
points

(The S/U symbols are used by the School of Education.)

Withdrawal/Drop

W (official withdrawal)	no credit, no honor points
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ED (dropped unofficially)	no credit, no honor points
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(A notation of ED for a graded election has the same effect on the grade point average as does an E.)

Incomplete/Work in Progress

I (incomplete)	no credit, no honor points
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Y* (work in progress for project approved to extend for two successive terms)	no credit, no honor points
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Official Audit (VI)

VI (Audit)	no credit, no honor points
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Miscellaneous Notations (NR, ##)

NR (no report)	no credit, no honor points
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NG (no grade reported)	no credit, no honor points
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A notation of P, F, CR, NC, S, U does not affect a student's term or cumulative grade point average. A notation of I, Y, NG, or NR, if not replaced by a passing grade, eventually lapses to E or ED and, for graded elections, is computed into the term and cumulative grade point averages.

*LSA Curriculum Committee approval is required to use a Y grade. See "*Grading for a Two-Term Course (Y)*" below.

If an LSA student elects a course in another Ann Arbor unit which is graded on a pattern not indicated here (for example, graduate courses in the Stephen M. Ross School of Business), the grade will be translated by the Registrar to fit with LSA's letter grading scale.

Term and Cumulative Grade Point Averages

The Term Grade Point Average is determined by dividing the total number of Michigan Semester Hours (MSH) elected during a term into the total number of Michigan Honor Points (MHP) earned during the same term. The Cumulative Grade Point Average is determined by dividing the total number of Michigan Semester Hours (MSH) into the total number of Michigan Honor Points (MHP) earned. Notations of Y, I, NR, and NG are not initially calculated into the term or cumulative grade point averages. Notations of I, NR, and NG, if unresolved by the end of the fourth week of the next fall or winter term in residence or by an approved extension deadline, lapse to E or ED and are computed into both the term and cumulative grade point averages, if the course was a graded election.

Minimum Term and Cumulative Grade Point Averages Required

To be eligible for continued enrollment, a student must earn at least a 2.0 term grade point average and a 2.0 cumulative grade point average. If a student fails to accomplish this, the "honor point deficit" can be determined by multiplying the Michigan Semester Hours (MSH) elected by 2.0 and subtracting the total number of Michigan Honor Points (MHP) earned. Only honor points earned in courses elected at the University of Michigan (Ann Arbor, Dearborn, or Flint campus) may affect the grade point average.

Grading for a Two-Term Course

A few courses (e.g., senior Honors thesis courses, Global Course Connections, or some Biological Sciences research courses) are approved as "two-term" sequences (approval has to be granted by the LSA Curriculum Committee). In these specially approved cases only, an instructor can report a Y grade at the end of the first-term course to indicate work in progress. When a final grade is reported at the end of the second term, that final grade is posted for both terms' elections. In cases where a Y grade is reported for a course which is not approved to extend for two successive terms, an I (Incomplete) is posted on the transcript and the course is subject to the regular deadline for incompletes. Students needing more time to complete this work must petition the Academic Standards Board for an official extension of the deadline.

No Report (NR), No Grade (NG)

NR grades should only be used in the following situations:

- For a student has a pending academic misconduct case. The NR serves as a placeholder grade until the academic misconduct case is resolved.
- For a student hospitalization/serious issue in which you've received communication from our office such as through an instructor notification or through the Dean of Students Office. This allows the student time to make a decision about how to proceed with the course.

Please do not use a grade of NR to indicate a student has stopped attending/not completed the course outside of the conditions above. This often prevents a student from getting much-needed support.

The NG is recorded when a student has been registered into a class after the web grade rosters have been sent to the instructor. The NG will convert to an ED if unresolved after the first four weeks of the next fall or winter registration.*An ED carries no degree credit, and the course is computed as an E in the term and cumulative grade point averages.

Academic Standing

At the end of each term, the academic standing of all LSA students are updated to reflect differing levels of progress. The college uses four statuses: Good Standing, Academic Progress Notice 1, Academic Progress Notice 2, and Academic Recess.

Academic standing is determined by your cumulative grade point average (GPA).

Standing at Start of Term	Cum GPA at End of Term	Standing at End of Term
Good Standing	Cum GPA \geq 2.0	Good Standing
Good Standing	Cum GPA $<$ 2.0	Academic Progress Notice 1
Academic Progress Notice 1	Cum GPA \geq 2.0	Good Standing
Academic Progress Notice 1	Cum GPA $<$ 2.0	Academic Progress Notice 2
Academic Progress Notice 2	Cum GPA \geq 2.0	Good Standing
Academic Progress Notice 2	Cum GPA $<$ 2.0	Academic Recess

Whatever your current standing, each semester offers an opportunity for growth and progress. If you find yourself facing any personal or academic challenges, please know this is a normal part of the college experience. Faculty and staff within the College of Literature, Science, and the Arts are here to support you.

Check out the list below to learn more about the various types of academic standing, and what they mean.

Good Standing

Good standing serves as an official notification that a student has achieved a 2.00 cumulative grade point average. Students in Good Standing may continue to enroll in classes.

Academic Progress Notice 1

Academic Progress Notice 1 serves as an official notification that a student's cumulative grade point average was below a 2.0 for one semester. Students on Academic Progress Notice I may continue to enroll in classes.

Please note: first semester students who do not successfully complete any classes (for example, by receiving grades of F, NR, etc) may be placed on Academic Progress Notice 1, regardless of cumulative GPA.

To return to Good Standing from Academic Progress Notice 1, a student's cumulative grade point average must be a 2.00 or higher. A student on Academic Progress Notice 1 who does not achieve a cumulative grade point average of 2.0 or higher at the end of the semester on notice will be placed on Academic Progress Notice 2.

Academic Progress Notice 2

Academic Progress Notice 2 serves as an official notification that a student's cumulative grade point average was below a 2.0 for two consecutive semesters. Students on Academic Progress Notice 2 may continue to enroll in classes.

To return to Good Standing from Academic Progress Notice 2, a student's cumulative grade point average must be a 2.00 or higher. A student on Academic Progress Notice II who does not achieve a cumulative grade point average of 2.0 or higher at the end of the semester on notice will be placed on Academic Recess.

Academic Recess

Academic Recess serves as an official notification that a student's cumulative grade point average was below a 2.0 for three consecutive semesters. Students on Academic Recess are not eligible to enroll in classes for one full calendar year after being placed on Academic Recess. A student returning from Academic Recess must request reactivation through LSA Student Records (lsa.student.records@umich.edu) before registering for classes. The semester the student returns to LSA, the student will be placed on Academic Progress Notice 1.

LSA Commitment to Academic Freedom

LSA's mission is to push the boundaries of what is understood about human experience and the natural world, and to foster the next generation of rigorous and empathetic thinkers, creators, and contributors to the state of Michigan, the nation, and the world. Achieving this mission is only possible through free and wide-ranging exploration, the cultivation of open-minded curiosity, and the testing of ideas both new and old.

Attacks on scholars for their work are a serious and growing problem across higher education. Faculty who have been targeted, and the leaders who support them, should contact the LSA dean's office for support.

LSA shares the University of Michigan's **commitment to diversity of thought and freedom of expression** and the provost's **support for targeted faculty**. We support our faculty and students' wide-ranging exploration of ideas and pursuit of knowledge, even when those ideas are challenging or controversial. In addition, we support the right of our faculty, staff, and students to engage as private individuals and to exercise free speech in the world outside the campus and classroom.

Exploration has always been the heart of education. It helps us understand who we are and illuminates the world around us. By definition, it must at times challenge the status quo, upend assumptions, and spark debate. This is how knowledge is created and how society advances.

Teaching and conducting research in LSA is a profound privilege and responsibility. We hold ourselves and one another to the highest standards of scholarship, and our faculty and students are among the most capable and talented in the world. As a large and diverse collection of scholars, we do not always agree, but we do share a commitment to rigorous, fearless, and humane engagement with one another and with the vital questions of our—and all—time.

Academic Integrity

Students, faculty, and staff all come from a variety of unique backgrounds and choose different experiences during their time at the University of Michigan. As a community, we value your ideas and beliefs and encourage individuals to learn from people who are different from them in many aspects. In an academic setting, it's important for you to respect others' ideas, and you should expect the same from your peers and instructors.

Recognizing that all our community members are seeking an optimal learning environment in which they can grow and develop, it's important to treat one another with honesty, fairness, and respect. This starts with ensuring that integrity is a priority for everyone.

Academic integrity strengthens the bonds our community has built and continues to build. It adds value to your degree and the work you produce. Academic dishonesty by any member of the community is therefore detrimental to the bonds we've built together. Without academic integrity, everything we do (our learning, teaching, and scholarship) loses value. We value academic integrity because it lays the foundation for everyone's development as the "Leaders and the Best" in whatever field they choose to pursue.

Being a part of the University of Michigan and the College of Literature, Science and the Arts (LSA) communities includes a commitment to our standards of academic integrity.

LSA Community Expectations Regarding Academic Integrity

The University and LSA are dedicated to upholding academic integrity, acknowledging the crucial role that every member (students, faculty, and staff) plays in its preservation. In order to achieve this mission, we encourage all members to abide by the following standards:

- Practice honesty, fairness, and respect in both your individual work and your interactions within the community.
- Contribute to the continued growth and maintenance of these values by inspiring fellow community members to uphold them.
- Extend these values into the world as you progress in your own personal growth and development beyond your time in LSA.

Why is Academic Integrity Important?

The University of Michigan's reputation as the "Leaders and the Best" is founded on integrity. Our community values it because it allows us to strengthen our trust in one another, promote a positive learning environment, increase our capacity to learn and grow, and prepare individuals for the ethical decisions they will need to make in the world around them.

But why should individual members value it?

Consider the following acronym "**PRIME**" which offers a few reasons to prioritize academic integrity:

Proficiency - Future employers, admissions committees, and recruiters seek ethical candidates to be a part of their communities. Colleagues who value and promote integrity are highly sought after because they can contribute to a community's overall credibility and enhance its reputation. By prioritizing academic integrity, you are developing yourself as an honest candidate for a future position, capable of contributing to a community's long-term success.

Respect - Academic misconduct harms both you and the entire academic community. Consider the professors, lecturers, and university staff that have exerted a substantial amount of time and effort to provide our community the opportunities to learn and grow. Cheating in any form devalues them and their work. It also gives you an unfair advantage over your peers who have worked honestly. This can lead to them feeling discouraged about their own efforts to succeed and create an unfair competition. Finally, cheating can undermine your own growth and development because at this point, you are not getting much out of your education since you've played the system to circumvent having to do your own work. This can lead to more long-term consequences as you find yourself underprepared in future prospects.

Intelligence - Being smart means being honest. Having integrity in the way you obtain knowledge and produce original work empowers you to achieve your maximum potential. Academic dishonesty, even if unnoticed or a small infraction, means you aren't learning or engaging in an intellectual dialogue. It is always important to put in an honest effort and reap the benefits of that hard work.

Maturity - Considering the implications that your behavior has on both yourself and others is a sign of maturity that is critical for your development. When you make an honest choice you are showing that you not only have the ability to identify ethical issues, but that you also have the ability to prioritize the correct course of action. This demonstrates to yourself and to others that you have a strong ethical backbone and that you are a productive contributor to our community here at Michigan.

Esteem - You were admitted to the University of Michigan, a world-renowned research institution, because you have the requisite skills to handle the rigor of Michigan's curriculum. You are an important member of our community whose ideas and beliefs add value to our institution. Doing your own work gives you satisfaction and pride in your ability to work hard and succeed, while showing respect and admiration for everyone within the community.

Fostering a Community of Academic Integrity

The College of LSA is composed of a variety of individuals who bring unique perspectives and diverse skill sets to share in our continued learning experience and collaboration with one another.

Within our community, you'll find individuals who are just beginning their academic journeys and are exploring a number of different academic interests. You'll also find others who have found their calling and are enthusiastically working on projects that they are truly passionate about. And still more who are seasoned in their fields and are interested in sharing the knowledge they gained and engaging in a collective dialogue.

With that in mind, this page is designed to guide you towards a multitude of different resources that can help you grow and develop your commitment to integrity as you continue on your

educational journey.

Getting Started

We know that the most common reasons individuals commit academic misconduct are due to poor time management, concern over abilities/grades, wanting to help friends, and personal/health issues. Since these are elements everyone will encounter during their time at Michigan (and life thereafter) it is important to plan ahead in order to avoid academic misconduct.

Whether you're new to the University, or have been here for a while, here are some helpful tips when considering academic integrity:

Ask Questions: Always clarify what course or assignment expectations are in advance. When in doubt, ask. If you aren't sure about something (Can you collaborate? How many sources should you have? What types of sources are acceptable?) ask your instructor or the graduate student instructor (GSI) for clarification. Remember not understanding or lacking clarity could lead to a violation of academic integrity and does not excuse a student from being responsible. It's far easier to communicate and seek clarity when you're unsure.

Improve your Understanding: Consider the following cases adjudicated by the Office of Student Academic Affairs and what students could have done differently: **Cheating, Unauthorized/Inappropriate Collaboration, Submitting Identical Work, Plagiarism, Falsifying and Misrepresenting Academic Materials or Documents, Contract Cheating, and Aiding in Academic Dishonesty.** In addition, take some time to review our **Student Rights** document.

Be Honest with your Instructors: If you are struggling with time management or a personal issue and having trouble completing work on time, please talk to your instructor and be honest. While it may not seem like it, instructors and GSIs are people too. They lead lives just like the rest of us and can be quite understanding when individuals are experiencing difficulties. Talking with them may lead to suggestions on how to help. While lying or ignoring your struggles may mean you won't get help for what the true issue is.

Cite Your Sources: This one seems fairly obvious, but you'd be surprised how often folks forget to go back and include citations when finishing their assignments. Give proper attribution to any source that you use. Whenever you get ideas or words from any source when writing a paper, cite that source. If you're uncertain, cite.

Paraphrase Appropriately: Remember that paraphrasing means more than simply changing a word here or there. If the ideas you are discussing were not something you had knowledge of before completing the assignment or aren't your own you'll need to cite that source. If you are struggling with paraphrasing, reach out to your instructor or the **Sweetland Center for Writing** to ask for assistance.

Complete Your Own Work: The purpose of college is to learn the material. If you are copying someone else's work you aren't learning, which defeats the purpose. While it may seem "minor" to copy someone else's homework assignment, the long term impact could impact your ability to be successful come exam time or in a future course.

Know when Collaboration is Okay: Don't work with others unless your instructor explicitly states collaboration is permitted. If it isn't clear how much collaboration is allowed and on what assignments, be sure to ask your instructor or GSI for clarification.

Don't Falsify a Record: Altering or forging emails, transcripts, or other university documents/forms are serious offenses and can be easily uncovered. They also typically carry significant sanctions from the college beginning with suspension.

Speak Out: If you witness any violation of academic integrity, let your instructor or GSI know. Having these types of conversations gives everyone an opportunity to learn and grow from the experience. It's also the best way to reduce the cultural perception that "everyone is cheating" and ensure that we continue to uphold the community standards.

Seek Out Support: As a community, we're here to support one another. If you are dealing with personal issues, health concerns, or struggling to find a network of support consider the following **Resources for Students**.

Resources for Students

On this page you will find resources to help guide you along a path of integrity at the University of Michigan. These resources and services are available to help you manage challenging situations as a student, whether they are course-related or personal in nature.

Academic Advising

- The **Newnan Advising Center** supports students as they make decisions about their LSA education. Through individual advising conversations, online resources, workshops and programs, **Newnan advisors** are dedicated to helping students develop an academic plan, set professional goals, and foster personal and intellectual growth from orientation through graduation.
- The **Comprehensive Studies Program (CSP)** is a community of scholars - students, faculty, advisors and staff - organized around the principles of diversity, access, equity and inclusion. **CSP academic advisors** develop strong working relationships with students. Through consistent on-going interaction, students and advisors forge a lasting relationship that is the foundation for personal guidance based on detailed familiarity with students' intellectual strengths, needs, interests, and goals.
- The **Honors Program** is a four-year program that provides an especially rich and challenging set of academic offerings to talented and highly motivated students in LSA. Conversations with **Honors advisors** focus on students' academic direction and goals, their understanding of the value of a liberal arts education, and post-graduation plans.
- The **Residential College (RC)** is a four-year undergraduate liberal arts program with about 900 students and 60 faculty, situated within LSA. All **RC advisors are RC faculty** members and are available to meet with students to discuss RC and LSA requirements, possible majors, graduation requirements, etc...

Academic Support

- **Services for Students with Disabilities (SSD)** provides services to students with visual impairments, learning disabilities, ADHD, ASD, mobility impairments, and all chronic health

and mental health conditions. SSD provides such services as accessible campus transportation, adaptive technology, sign language interpreting, classroom accommodations, note-takers, and more, all free of charge and confidential.

- The **Sweetland Center for Writing** exists to support student writing at all levels and in all forms and modes. Sweetland offers one-to-one consultations to undergraduate students in faculty-led Writing Workshops and at Peer Writing Centers and the Online Writing Lab (OWL). In addition, Sweetland offers a range of credit-bearing courses and one-to-one consultations at Writing Workshop and Peer Writing Centers for all multilingual and international undergraduate students.

Check out these additional resources they provide:

1. **Beyond Plagiarism**
2. **Sweetland Writing Guides**
3. **Writing Support**

- The **Science Learning Center (SLC)** is an interdisciplinary resource center that supports teaching and learning across the natural sciences of astronomy, biology, biophysics, chemistry, earth and environmental sciences, and physics. The SLC provides out-of-classroom learning opportunities such as study groups, tutoring, mentoring, GSI office hours, and workshops.
- The **Math Lab** is a walk-in tutoring service available free to all U-M students. Tutoring is available for mathematics courses numbered through MATH 217. Though help is not regularly available for other courses, the Math Lab will attempt to answer questions of any U-M student who comes to us for mathematics help.
- The **Language Resource Center (LRC)** serves, supports, and promotes the study and instruction of languages, cultures, and literatures at all levels within the University of Michigan Community. It offers a multitude of resources and services to students in support of learning languages and culture on the U-M campus. They include, but are not limited to collections of digital and print media focused on language learning, recommendations for language learning apps, conversation partners, language audio material, vocabulary tools, and tutors.
- The **Physics Help Room** was created to help students in Introductory Physics classes. Help Room staff are available to answer questions related to introductory physics courses through walk-in tutoring. Services are free to all U-M students; no appointments are needed.
- The University's **GenAI Guidance website** provides assistance on how students can responsibly use this technology to assist with their assignments.

Health-Related Resources

- **Counseling and Psychological Services (CAPS)** provides multicultural, multi-theoretical, and multidisciplinary expert and caring mental health support to currently enrolled students at no charge. Common reasons students seek CAPS services include: anxiety, depression, relationship issues, academic concerns, and self-esteem/self confidence. CAPS hosts an after-hours urgent support line: 734.764.8312.
- **Sexual Assault Prevention and Awareness Center (SAPAC)** is the designated office at the University of Michigan to provide services around issues of sexual assault, interpersonal violence, stalking and sexual harassment. SAPAC's services are confidential and free of charge. They also host a 24-hour Crisis line: 734.936.3333.
- **University Health Services (UHS)** is a healthcare clinic and wellness resource. Medical services are confidential, and provided by licensed, credentialed health care providers.
- **Wolverine Wellness** nurtures a healthy campus community with coaching and educational programs on wellness, tobacco cessation, safer sex, alcohol and drugs, healthy eating and body

image, and much more. They can help students individually or in a support group.

- Student Life's **Well-being for U-M Students** page provides a comprehensive list of the most often used resources for U-M students. It includes resources for personal well-being, identity based support, and student engagement.

Financial Aid Resources

- The **Office of Financial Aid** helps maintain multiple financial aid resources that are used to help pay for tuition, books and other cost of living expenses.
- The **LSA Scholarships Office** matches eligible students to specific LSA scholarships. Admitted Students can apply for a Renewable Scholarship or an International Student Scholarship before deciding to enroll. Students who complete either application will be considered for all scholarships available to them through LSA – whether they qualify for need-based awards, merit awards, or both. LSA also provides scholarships for current students that cover everything from tuition support to study abroad to completing an internship.
- The **Center for the Education of Women (CEW+)** helps women and underserved communities navigate circumstantial barriers by providing academic, financial, and professional support to help you reach your personal potential. Offers career and education counseling, funding, workshops, events, and a diverse, welcoming community.
- The **Maize and Blue Cupboard** is a food pantry that provides crucial support to students struggling with hunger and food insecurity. It's hard to get a full "Michigan Education" if you're worrying about where your next meal is coming from. Funds are used to help purchase food, student programming, and facility use.

Community-Centered Aid

- The **International Center (IC)** provides a variety of services to assist international students, scholars, faculty and staff at the University of Michigan, as well as U-M American students seeking opportunities to study, work, or travel abroad.
- The **LSA Transfer Student Center** provides a home on campus for transfer students. The goal of the Transfer Student Center is to help students connect to the university community and provide students with the tools and resources they need to achieve their goals at Michigan and beyond.
- The **Center for the Education of Women (CEW+)** helps women and underserved communities navigate circumstantial barriers by providing academic, financial, and professional support to help you reach your personal potential. Offers career and education counseling, funding, workshops, events, and a diverse, welcoming community.
- The **Spectrum Center** is a campus resource center dedicated to serving and supporting members of the U-M LGBTQIA2S+ communities. Through education, advocacy, and community building, the center works to enhance campus climate, increase students' sense of belonging, and help students thrive.
- The **Office of Multicultural Initiatives (OAMI)** works collaboratively with campus and external partners to develop strategic programs that provide students resources, opportunities and experiences that enrich their academic, social, cultural, and personal development at the University of Michigan.
 - OAMI serves as one of the spaces on campus for **undocumented and DACAmented students** of all ethnicities and nationalities to find a safe environment and supportive community at the University of Michigan. Regardless of the situation, OAMI is here to help students transition to and succeed at UM.

- The **First-Generation Gateway Office** serves as a starting point to get connected to resources for first-generation students. Housed in the Office of Academic Multicultural Initiatives (OAMI), the Gateway is linked to several partner offices and is a home for support for first-generation students. The Gateway is for all first-generation undergraduate and graduate students and their allies.
- The **Office of Multi-Ethnic Student Affairs (MESA)** provides support and programming through celebrations, educational offerings, and building social capital through the lens of race and ethnicity. In addition, they also provide consultation on various student social, cultural, and educational programming that foster diversity and inclusion, particularly through the lens of race and ethnicity.
- The **Trotter Multicultural Center** is a national leader in promoting an inclusive campus climate, the Trotter Multicultural Center serves as a campus facilitator, convener, and coordinator of intercultural engagement and inclusive leadership education initiatives for University of Michigan students.
- **Women in Science and Engineering (WISE)** is a campus wide community of faculty, staff and students that work together to ensure all women and non-binary students and postdoctoral scholars at U-M have the support they need to thrive in STEM. Our programs are designed for girls, women and non-binary individuals but are open to all.
- **English Language Institute (ELI)** provides language, academic, and intercultural instruction which enables all members of the University of Michigan community, regardless of the language in which they were raised or educated, to fully participate in the life of the University, and to excel in their scholarly, instructional and professional endeavors throughout their academic careers.
- The **Athletic Success Program (ASP)** provides services to support, direct, and promote student-athlete development, academic achievement, academic athletics eligibility, and progress toward graduation. The Stephen M. Ross Academic Center provides academic study space for more than 800 U-M student-athletes: individual and group study areas, computer labs, meeting rooms for tutorial work, a large meeting room and assembly areas for group projects, as well as offices for instructional support staff.
- The **Veteran and Military Services Program (VMS)** provides advocacy and assistance services to military-connected students, including: assistance on applying to the University of Michigan, other educational options and accessing their VA educational benefits. Resources and referrals to help them understand and access all services and options available to them.

Conflict Resolution

- The **Office of Institutional Equity (OIE)** is a vital resource for promoting diversity and equal opportunity at U-M. OIE provides support for issues involving discrimination, discriminatory harassment or sexual misconduct, and can assist individuals with filing a complaint.
- The **Office of Student Conflict Resolution (OSCR)** provides a safe and scholarly community in which students navigate conflict in a peaceful, socially just, and self-reflexive manner. OSCR provides a variety of programs and services designed to support a safe, just and peaceful community, and to help Michigan students learn how to manage and resolve conflict peacefully.
- The **Office of the Student Ombuds** is where students can discuss current or anticipated disputes and conflicts with the University, as well as concerns and complaints in a confidential, informal and safe environment. The Office offers informal dispute resolution services, provides resources and referrals and helps the University's diverse students understand their rights as

they consider available options.

Resources for Jobs, Internships., and Other Opportunities

- The **Office of Institutional Equity (OIE)** is a vital resource for promoting diversity and equal opportunity at U-M. OIE provides support for issues involving discrimination, discriminatory harassment or sexual misconduct, and can assist individuals with filing a complaint.
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Additional Resources

- The **Dean of Students (DoS) Office** is responsible for overall management of critical incidents and emergencies across the university. Students, parents, faculty, and staff can contact DoS if they identify a student struggling with a challenge or unmet need.
- **LSA Honor Council** is a student organization that promotes a culture of integrity on campus and collaborates with faculty and students to encourage discussions about academic integrity and prevent academic misconduct.
- **Student Legal Services** can advise students regarding their legal rights and represent them in court if needed.
- **Grade Grievance Procedures** outline a policy which provides students a means to contest a final course grade received in a credit-bearing course if a student believes fair and consistent grading procedures have not been followed. A final grade is only subject to review when 1) a procedural error has been discovered in the calculation of recording of a grade, or 2) there is a concern that the grade was not fairly given. Please note disagreeing with grading policies or an instructor's assessment of work is not a basis for a grade grievance.
- Our **Student Rights** document outlines the rights that students are afforded to ensure procedural fairness through the resolution process.
- Unsure what constitutes an academic integrity violation? Consider the following cases adjudicated by the Office of Student Academic Affairs (SAA) and what those students could have done differently: **Cheating, Unauthorized/Inappropriate Collaboration, Submitting Identical Work, Plagiarism, Falsifying and Misrepresenting Academic Materials or Documents, Contract Cheating, and Aiding in Academic Dishonesty.**

Resources for Instructors

On this page you will find resources to help you promote academic integrity in your courses. For information resources that help students manage challenging situations, please see either the **Getting Started** or **Resources for Students** pages.

Student Academic Affairs

- **The Faculty Academic Integrity Guide**

- **Developing Misconduct Scenarios** - In-class activity related to Academic Integrity
- **Instructor Handbook**
- **Student Rights Document**
- **Syllabus Statements**- Instructors sometimes wish to include statements regarding specific policies or procedures in their syllabi. The following template syllabus statements can be used or modified as appropriate.
- Faculty who have questions about a particular incident in their course(s) or would like further clarification about the procedures for resolving academic misconduct can contact our office either by email at lsajudicial@umich.edu or by phone (734) 764-7297.

Center for Research on Learning & Teaching (CRLT)

- **Teaching Strategies: Academic Integrity in the Classroom**
- **Seminar Series**
- **Inclusive Teaching Resources and Strategies**
- **ChatGPT: Implications for Teaching and Student Learning**

Center for Academic Innovation

- **Online Teaching at Michigan**
- **How is Online Teaching and Learning Really Different?**
- **Creating Authentic Assessments**

Generative Artificial Intelligence (AI)

- **Training Options: Training for Research and Instruction**
- **Resources for Research**
- **AI Tools**
- **Prompt Literacy in Academics**
- Academic Technology's **Generative AI** page
- LSA Technology Services' **GenAI and the Liberal Arts: Balancing Innovation and Ethics in the Classroom**.
- Examples for how to cite generative AI in **APA**, **MLA**, or **Chicago Style** formats.

Sweetland Center for Writing

- **Beyond Plagiarism: Best Practices for the Responsible Use of Sources**
- **Writing Guides**
- **Using Generative AI or Chatbots in the Writing Process**

The University of Michigan Library

- **Resources for Instructors on Academic Integrity**
- **U-M Library DIY Module: Academic Integrity & Plagiarism** a module found in the commons area on Canvas, which can be added to a course Canvas site.

Get Involved

Interested in helping our community uphold academic integrity in a more active and engaged way? Consider the following groups and organizations:

- **LSA Student Honor Council**- The LSA Student Honor Council is a council of students that promotes a culture of integrity on campus by encouraging the practice of academic integrity.

They partner with other students, faculty and staff to facilitate understanding of the College's academic integrity standards. Honor Council holds campus events throughout the year to spur dialogue about integrity, engages academic departments and faculty in discussion about promoting academic integrity and preventing academic misconduct, and collaborates with other College offices and programs to instill the values of integrity in all aspects of University life.

- The Academic Judiciary Committee (AJC)- The AJC is a committee composed of both undergraduate students and faculty members from the College of LSA. Together they work with the Office of Student Academic Affairs (SAA) to promote academic integrity across campus and address potential areas of concern. In addition, they serve as panel members when a student submits a written appeal for a finding of responsibility, reviewing the case and determining whether to sustain or reverse a finding of academic misconduct. For more information please contact lsajudicial@umich.edu.
- The **International Center for Academic Integrity (ICAI)**- An international organization advancing academic integrity to promote ethical institutions and societies all over the world. They offer assessment services, resources, and consultations to member institutions and facilitate conversations on academic integrity topics. They encourage, support, and share research that predicts, describes, and responds to trends and issues relating to academic integrity standards and practices.

Procedures for Resolving Violations of Academic Integrity

In the event of alleged academic misconduct, an instructor within LSA who believes academic misconduct has occurred may choose to either resolve the matter directly with the student (Instructor Resolution) or file a complaint of academic misconduct to the Office of Student Academic Affairs (SAA Resolution), who will then adjudicate the case. There are limitations on when an instructor may opt to resolve an academic misconduct case directly with a student. In instances where the sanction may result in the student(s) failing the course, the student has a previous finding of responsibility, or are suspected of falsifying/misrepresenting academic documents the SAA resolution would be more appropriate.

Examples of academic misconduct include, but are not limited to: cheating, plagiarism, inappropriate collaboration, falsification of data, records, or documents, and aiding and abetting dishonesty.

The complaint for any alleged instance of academic misconduct should be filed as soon as practical from the date of occurrence and **must be submitted within 2 months of the date of the incident.**

Materials related to a formal complaint of academic misconduct or to report a resolution by an instructor will be maintained in compliance with the privacy expectations under the Family Educational Rights and Privacy Act (FERPA) by the Office of Student Academic Affairs for Undergraduate Education.

Prior to a final resolution by instructor/student or the Office of Student Academic Affairs:

- The student is presumed to not be responsible for the alleged misconduct and the student may continue to attend class and receive grades.
- The instructor may NOT impose any penalty or require any remedial work until the case has been resolved.

- The student may NOT change registration in the course (e.g. drop the course or change the grading option to P/F).
- The student may not receive credit for the course in which the alleged misconduct occurred and may not graduate. If a final grade must be reported for the course while a case is pending, the instructor should report the course grade as NR (No Report). NR is a temporary, neutral grade that may be used in special circumstances where a final grade is not yet able to be reported.

Instructor Resolution

An instructor resolution allows an instructor to resolve the concern regarding academic misconduct with the student directly. This process involves a discussion between instructor and student regarding the importance of academic integrity and a focus on the incident as a learning opportunity for the student.

An instructor resolution is appropriate when the incident is not egregious and **should merit no consequence greater than a zero on the assignment**, though the student may be required to do additional, remedial work (e.g., rewrite a paper). The distinction between academic evaluation (e.g. reduction in grade, additional work) and disciplinary action is important to note. Instructors have the authority to make academic judgments relating to their students' work, and to make decisions in the interests of furthering their students' education. Only the college, acting through its formal processes, may issue a disciplinary action.

In the case of an instructor resolution, the following procedures should be followed:

1. Instructor informs the student of possible academic misconduct and provides the student with evidence of misconduct.
2. A meeting takes place between the instructor and student to discuss the allegation and possible course/grading sanctions. The student will be provided with the opportunity to be heard, ask questions, and provide any written evidence or other relevant information.
3. After meeting with the student, the instructor determines which outcome applies:

Outcome A: Instructor accepts student's explanation and finds that no misconduct has occurred.

OR

Outcome B: Student acknowledges misconduct and accepts course/grading sanction.

- Instructor informs the Office of Student Academic Affairs of the incident via the **Instructor Resolution Form**.
- The Office of Student Academic Affairs sends the student an official warning via a resolution letter. The resolution letter lets the student know that the Office of Student Academic Affairs is aware of the incident and instructor resolution. It also lets them know how to proceed should they not agree with the instructor resolution.

OR

Outcome C: Student does not acknowledge misconduct and/or accept course sanction; however, the instructor feels misconduct has occurred.

- Instructor submits the case to the Office of Student Academic Affairs for resolution via the **Report of Suspected Misconduct Form**.
- Following a judicial hearing, the Student Academic Affairs sends the student and instructor a resolution letter with the findings. If the student was found responsible, the instructor can now impose class sanctions.

Note: In the case of repeat or egregious offenses, the Office of Student Academic Affairs reserves the right to reject the outcome of an Instructor Resolution and require a case to go through the Office of Student Academic Affairs Resolution Process. Instructors are encouraged to contact the Office of Student Academic Affairs for consultation at any point in the process.

Office of Student Academic Affairs Resolution

A faculty or staff member within LSA who believes academic misconduct has occurred may also file a formal complaint of academic misconduct with the LSA Office of Student Academic Affairs (via the **Report of Suspected Misconduct form**) who will handle the case and determine if misconduct has occurred.

When a case is managed by the Office of Student Academic Affairs, the instructor should not impose any penalty or require any remedial work until the case has been resolved. Once a case has been filed with the Office of Student Academic Affairs, it may not be withdrawn without the approval of the Assistant Dean. Barring unforeseen circumstances, cases will be resolved within the academic term (and typically within three weeks) in which the incident occurs.

In those situations where the Office of Student Academic Affairs resolves the matter directly with the student, the following process occurs:

Prior to the meeting between the accused student and the Coordinator of Academic Integrity or the Assistant Dean's designee, the student will receive (via email) notice of the allegation against them so that they are aware of the nature of the potential misconduct. Prior to the meeting, the student also has the right to review relevant information related to the allegation.

In the meeting the Coordinator of Academic Integrity or designee will describe the charges made, detail the evidence supporting those charges, and review the range of College sanctions (e.g. disciplinary probation, community service, suspension). This is an opportunity for the student to be heard and to present their side of the incident. The student should show up to this meeting ready to present any relevant material, read a statement, and/or ask questions. Typically, in each meeting a representative of the LSA Student Honor Council sits in attendance and participates, though acting neither as an advocate for nor against the student. Please notify the Office of Student Academic Affairs if you will have a support person in attendance at the meeting.

If, during this meeting, the Coordinator of Academic Integrity or designee believes that the credibility of the accusing party (e.g. narrative), or information they submitted, is relevant to a finding of potential responsibility, the Office of Student Academic Affairs will facilitate the opportunity for the accused student to ask questions of the other party, either through the exchange of written questions or the opportunity to ask live questions during a subsequent meeting as determined by the Coordinator or designee. This additional step will be completed prior to the Coordinator or designee's determination of responsibility.

The Coordinator of Academic Integrity or the Assistant Dean's designee has the authority to determine, based upon the information available, whether a violation of the LSA Community Expectations of Academic Integrity has occurred and the student is responsible for academic misconduct. The standard of review is preponderance. This means that the accused student is not responsible unless the evidence as presented demonstrates that it is more likely than not that

academic misconduct has occurred. The student will then be informed by letter, with an electronic (email) copy to the instructor(s), of the decision and sanction(s), if any, to be imposed.

If a student is found responsible for academic misconduct, appropriate grade penalties for the infraction will be at the discretion of the instructor in accordance with the syllabus if applicable. In addition, the student may be assigned college sanctions by the Office of Student Academic Affairs.

If a student is found not responsible for academic misconduct, the instructor(s) will grade the student accordingly.

The meeting between the accused student and the Coordinator of Academic Integrity or the Assistant Dean's designee may be virtual or in-person.

Note: If a student against whom the complaint of alleged academic misconduct has been reported does not make timely arrangements for a meeting to take place the Office of Student Academic Affairs will place a judicial hold on the student's account until a meeting occurs. Instructors will be notified at the end of the term if a judicial hold has been placed on a student's account and the case is still pending. In addition, the Assistant Dean may make a determination to continue the process in the student's absence based on the evidence presented.

Appealing the Decision: The LSA Academic Judiciary Committee

A student found responsible for academic misconduct may submit, through the Office of Student Academic Affairs, a written appeal to the LSA Academic Judiciary Committee (AJC). The student must submit an appeal within two weeks from the date of the resolution letter. The written notice of appeal must state what is being appealed – the finding of academic misconduct, the sanction imposed, or both. The appeal must also state and describe in detail at least one of the following grounds for appeal:

1. There were violations of the procedure that seriously compromised the investigation and/or conclusions.
2. There is significant new evidence not reasonably available at the time of the meeting with the Coordinator of Academic Integrity or the Assistant Dean's designee.
3. The sanctions are excessive relative to the violation.

Note: Successful submissions for the case to be reviewed are rare and exceptional.

The LSA AJC has sole discretion to determine if sufficient grounds exist for consideration of an appeal. If the request for the appeal has merit, the AJC shall gather a panel of its members to review the appeal once a decision to grant the appeal hearing has been made.

Following its review, the AJC may sustain or reverse the finding of academic misconduct. If the finding of academic misconduct stands, the Committee may recommend to the Assistant Dean to sustain, modify, or increase the sanction(s) imposed. The student will be informed by an electronic (email) the outcome of the appeal hearing.

Cross-School/College Cases of Academic Misconduct

In cases where a student registered in another School or College at the University of Michigan (e.g. Engineering, Nursing, Kinesiology, Ross, Art and Design) is alleged of academic misconduct

in an LSA course, the authority of the College of LSA extends only to determining whether or not the alleged action is a violation of the LSA Community Expectations regarding Academic Integrity and the application of a grade penalty in the course. As it concerns administrative sanctions made at the college-level, the Office of Student Academic Affairs will recommend a sanction or sanctions to the appropriate office of the other School or College in which the student is registered, but that School or College has the responsibility for imposing any recommendation or additional sanction it determines appropriate.

In cases where a student registered in LSA has been found responsible for academic misconduct in a course offered by another School or College at the University of Michigan, the Assistant Dean for Undergraduate Education will notify the student in writing of the decision in the case and of any administrative sanction (but not the finding of responsibility or any course-level sanction imposed by the instructor) to the Assistant Dean.

How to Report a Suspected Violation of Academic Integrity

An instructor within LSA who believes academic misconduct has occurred may either resolve the matter directly with the student or file a complaint of academic misconduct with the LSA Office of Student Academic Affairs, who will then handle the case. Staff members who suspect academic dishonesty should submit the matter directly to the LSA Office of Student Academic Affairs. *Reports of academic misconduct must be submitted within two months of the date of the incident.*

Please note that reports of academic dishonesty may only be made by faculty and staff. If you are a student and have a concern, please talk directly with your instructor. Additionally, any concerns regarding non-coursework outside of LSA should be direct to the appropriate office (e.g. The Office of Admissions, Office of Student Conflict Resolution).

Faculty and staff are encouraged to contact the LSA Office of Student Academic Affairs for consultation prior to reporting potential incidents of academic misconduct. Our staff can answer questions about the process before an incident is formally reported. Similarly, students who have questions or concerns can reach out to the Office of Student Academic Affairs (lsajudicial@umich.edu) or the **LSA Honor Council**.

- If you have completed an instructor resolution with a student, please fill out the following **Instructor Resolution Form**.
- To file a formal complaint of academic misconduct with the Office of Student Academic Affairs please fill out the following **Report of Suspected Misconduct**.

What to Do If You Are Suspected of Academic Misconduct

It's important that you take the time to reflect on the concerns your instructor has raised and review college policies related to academic integrity. Recognize that in this environment you are learning and developing a greater understanding of how to act ethically. Academic integrity is not a destination, but rather an ongoing journey and something everyone needs to consistently build upon. As such, the concerns presented by your instructor are an opportunity for you to grow and expand your knowledge of academic integrity.

Please note when misconduct has occurred, it is rare for a student with a first-offense to be suspended or expelled from the university as a result. Not all reports of academic misconduct

end with a finding of responsibility. Occasionally there is a misunderstanding between the student and instructor where what looks like misconduct is more likely a coincidence.

We hope the following will answer many of the questions you may have about allegations of academic misconduct and the related process. You may also reach out to the LSA Office of Student Academic Affairs (lsajudicial@umich.edu) if you have additional questions.

My instructor let me know they are reporting me for academic misconduct -or- I got an email from the LSA Office of Student Academic Affairs regarding an academic integrity violation. What do I do now?

If your instructor has let you know they suspect academic misconduct and are forwarding the information, you will soon receive an email from the Office of Student Academic Affairs informing you of the allegation and asking you to set up a meeting with the Coordinator of Academic Integrity or the Assistant Dean's designee. When your meeting is confirmed you will receive evidence provided by your instructor to review. During the meeting with the Assistant Dean or their designee you will have a chance to discuss the evidence provided by your instructor and offer an explanation. This meeting is an opportunity for you to be heard and present your side of the incident.

It's important that you continue to attend class while the case is pending. Prior to a final resolution by the Office of Student Academic Affairs, you are presumed to be not responsible for the alleged misconduct and you may continue to receive grades in the course.

How can I prepare for the meeting with the Office of Student Academic Affairs?

You can review the **LSA Community Expectations Regarding Academic Integrity, Resources for Students**, the **Student Rights** document, and **Procedures for Resolving Violations of Academic Integrity** webpages.

You may wish to speak with the LSA Student Honor Council President, who can talk about the process, as well as answer any general questions you may have. Students have often found it helpful to talk with the President in advance of their meeting with the Office of Student Academic Affairs. Please keep in mind that the President of the Honor Council is not involved in any decision-making, nor are they privy to the details of individual cases. Information on how to connect with the LSA Honor Council President will be sent to you from the Office of Student Academic Affairs in our initial correspondence regarding the allegation as well as when we confirm your meeting with the Coordinator of Academic Integrity or the Assistant Dean's designee.

What evidence that my instructor submitted will I have access to prior to my meeting with the Office of Student Academic Affairs?

When your meeting is confirmed, you will receive access to the report and evidence submitted by your instructor. Please note that in some circumstances, we are unable to share evidence in advance in order to preserve the integrity of the assessment. For example, if you are accused of cheating on an exam, you will receive the instructor's report and examples/evidence of cheating

from the instructor, but we may not be able to supply the exam itself prior to that meeting. You would, however, be able to review the exam during your meeting with the Coordinator of Academic Integrity or the Assistant Dean's designee.

I feel that I didn't do what my instructor is accusing me of doing. What can I do about that?

In your meeting with the Coordinator of Academic Integrity or the Assistant Dean's designee, you will have the opportunity to provide any evidence or explanation. It is possible that no violation of the LSA Community Expectations has occurred. That is why the student meeting is important and that you are given an opportunity to respond to the instructor's concern.

How will I find out what the outcome of that meeting is?

You and your instructor will be informed by resolution letter via email of the decision and college-level sanction(s), if any, to be imposed. Your instructor will follow up with you directly regarding any course-level sanction to be imposed in cases where you are found responsible.

What will happen if I'm found responsible for academic misconduct?

If you are found responsible for academic misconduct, appropriate grade penalties for the infraction will be at the discretion of the instructor in accordance to the syllabus or the course/department policy, if applicable. Grade penalties can range from a grade reduction on the assessment to failure of the course.

In addition, you may also be assigned college sanctions by the Office of Student Academic Affairs. ***Most first-time offenses of academic misconduct result in a college-level sanction of disciplinary probation.*** During this period of disciplinary probation, we ask that you reflect on the experience and are conscious of ways to incorporate LSA Community Expectations into your personal and academic life. Additional findings of misconduct may result in much harsher sanctions, such as suspension from the University.

What type of academic misconduct violations can result in suspension or expulsion?

Most first offenses of academic misconduct do not result in suspension or expulsion. However, there are a few violations that we do feel are egregious enough to warrant suspension or expulsion.

Any "doctoring" or altering of a university record or communication in order to receive an unfair advantage will result in suspension. For example, altering the date of a communication/transaction so it appears you attempted to make the request prior to a particular date or deadline will result in suspension. You may also face suspension if you are found responsible for a second or third instance of academic misconduct, regardless of the type of misconduct.

Expulsion from the University is typically reserved for multiple egregious acts that had previously resulted in suspension.

What if I didn't mean to commit academic misconduct - is that taken into consideration?

Students often violate academic integrity standards unintentionally. For example, including source

language verbatim in your notes then including it in your paper without realizing it was not your own words. Violations can be unintended, but they are still violations and need to be addressed.

Many violations of academic integrity are a result of stress, poor time management, health issues, or other personal factors. Faced with such stressors, students sometimes make poor decisions. Part of this process is to help you understand how to respond appropriately should you find yourself in a similar situation in the future.

I'm planning on applying to medical/law/graduate school. Will I have to report this on my application?

You should report any academic integrity violation on your professional and graduate school applications, regardless of whether or not there is a permanent record of such violation. Applications will give you an opportunity to explain the incident and discuss what you've learned from the experience. Not reporting a violation is dishonest – and could result in being denied admission or having your admission revoked if it is discovered that you had an academic integrity violation and did not disclose it.

I still have a lot of questions. Who can I contact?

First, reach out to the current LSA Student Honor Council President. They may be able to answer your questions and offer a student perspective. You may also email our office (lsajudicial@umich.edu) and we will be happy to answer any questions that you may have.

Engaged Learning

Comprehensive Studies Program (CSP)

Students in CSP's **Summer Bridge Program** have an excellent opportunity to strengthen their academic skills, build a professional support network, and familiarize themselves with the campus and its resources.

Internships

Curious about a career path? Internships are a great way to get to know a particular organization and occupation. **The LSA Opportunity Hub** helps students explore their interests outside the classroom.

Social Impact

optiMize supports student innovators building projects they are passionate about, whether that means design solutions for people with disabilities, a community farm growing 50,000 lbs. of fresh produce in Detroit, or the first-ever “open world” virtual reality game for mobile.

Service Learning

What students learn in LSA can and should help others. Connecting coursework to the community to problem-solve issues in the real world is a pillar of an LSA education, creating more thoughtful, engaged students and citizens. That's why LSA has numerous programs to help students not just learn, but do.

The Ginsberg Center

The Ginsberg Center empowers students to engage in positive change through social-justice education, leadership, and meaningful service experiences with the community. The center partners with faculty to offer a range of programs to strengthen community service learning across the University of Michigan.

The Detroit Initiative

The Detroit Initiative seeks to provide opportunities for students and faculty to engage in further education, service, and research in the Detroit area through a focus on community-identified priorities.

The Program on Intergroup Relations

This social-justice education program blends theory and experiential learning to prepare students to live and work in a diverse world, educating them in making choices that advance equity, justice, and peace.

Project Community

Organized through LSA's Department of Sociology and the Ginsberg Center, this program combines service with classroom learning.

Project Outreach

This program helps students learn about themselves and about psychology by becoming involved in community settings ranging from the justice system to medical facilities.

Global Studies

A passport can be as foundational to your LSA experience as your classes are.

Picture yourself learning a new language right in the heart of where it's spoken, or helping a community develop clean water solutions, or traveling abroad with a professor to see first-hand how lessons from the classroom can make a difference.

The world needs global citizens: men and women who have a deep understanding of different cultures, are fluent in other languages, and possess the skills of negotiation and conflict resolution. With that in mind, LSA offers a wide range of globally focused programming and has become one of the top 10 centers for global study in the United States.

Advice for Finding a Program

You may already know exactly what you want to get out of your study-abroad experience, or you may know only that you want the experience but haven't any specific goals. Considering the following questions will help you search for the program that is best for you:

- Where in the world do you want to go?
- What do you want the language of instruction to be?
- How long and what time of year do you want to be, or can you be, away from campus?

- Do you want to be with other U-M and/or American students, or do you want to venture off more on your own?
- Do you want a strictly academic program, or one that incorporates service opportunities or internships?
- Since credit from a non-Michigan program is transfer credit, are you still eligible for transfer credit? Will the courses transfer to U-M?
- Do you want to use credit toward your concentration, distribution, or pre-health requirements?
- Do you want to live in a dormitory, an apartment, or with a host family?
- What will the total cost be (application and program fees, tuition, travel, etc.), and how will it compare to a term or year at U-M? If applicable, will you be able to use financial aid?

M-Compass

M-Compass is a University of Michigan site where students can search and apply for study abroad programs. Students applying for LSA-sponsored financial aid for their global experience can also apply for funding through this site.

The Center for Global and Intercultural Study (CGIS)

The vast majority of global study-related programming in LSA and across U-M is handled through CGIS. Options range from short programs abroad to yearlong experiences, either on your own or with a faculty-led class. Advising and Q&A sessions are regularly available. Students are recommended but not required to attend a CGIS First Step session before submitting an application for a program through CGIS.

Global Intercultural Experience for Undergraduates (GIEU)

GIEU provides project-based service-learning programs for first-year students, sophomores, and juniors. You can earn two credits taking a semester-long pre-departure course on intercultural learning, conducting fieldwork abroad for three to four weeks during the summer.

iiepassport.org

A sizeable directory of study abroad programs offered through numerous institutions.

The Global Scholars Program (GSP)

GSP is a campus community for students from all over the United States and around the world. Global Scholars live together in North Quad, make friends through regular community events, take one class together each semester, participate in small group dialogues on critical global issues, and complete an online team internship with one of GSP's global NGO partners. Our motto is "One World. One Community.", and we're ready to welcome you to GSP!

The Global Michigan Portal

You can find international opportunities on and off campus through the Global Michigan Portal.

You can find official international travel requirements on the **LSA travel policy page**.

Summer Learning

Study biodiversity in Michigan, geology in Wyoming, immerse yourself in exciting research on the Ann Arbor campus—and much more.

Every year, summer courses offer LSA students the chance to obtain academic credit while exploring new learning opportunities including:

The University of Michigan Biological Station

Study biology and environmental science in the field in northern Michigan.

The Camp Davis Rocky Mountain Field Station

Take a variety of courses in the geology, environmental sciences, and humanities.

New England Literature Program

Learn about New England authors and writing for six-and-a-half weeks.

Undergraduate Research Opportunity Program (UROP)

Conduct intense research in labs or in the community.

A full list of classes and opportunities is available through the LSA Course Guide.

First-Year Seminars

Share your ideas and learn from professors who write groundbreaking books, explore pioneering research, and lead their respective fields.

First-Year Seminars provide first-year students with a special opportunity to experience a course similar in its structure to an upper-level university seminar. All First-Year Seminars are taught by tenured or tenure-track professors, doctoral-level researchers, visiting faculty members, professors emeriti, or other accomplished scholars and experts in their respective academic disciplines.

Enrollment for First-Year Seminars is strictly capped at eighteen students in order to ensure ample opportunity for those enrolled to interact with both the instructor and their fellow students. All First-Year Seminars also fulfill at least one LSA distribution requirement.

First-Year Seminars (FYS) Enrollment FAQ

- **How can I find out what seminars are still open?**

All seminars remain closed until Summer Orientation. Then the FYS office tries to post online a weekly list of all open seminars as of a specific date. For real-time information, refer to the **Time Schedule**. Most spaces are open for general enrollment, while others are reserved for participants in a Michigan Learning Community. Be sure you meet the criteria for enrolling.

Some spaces are designated as “enrollment management,” which is simply a tool for keeping a number of spaces closed until later in the summer.

- **What if only certain sections of a course are open?**

Be careful to enroll in specific sections and class numbers. For almost all first-year seminars, each addresses a *distinct topic* taught by a *different instructor*.

- **What if a seminar is closed and has no wait list?**

Keep checking! Spaces are opened incrementally during Summer Orientation to save spaces for students who register later in the summer. Wait lists don't begin until the class is fully enrolled. Many students enrolled in FYS may drop and add even after classes begin. The goals of the FYS Program make it essential to limit maximum enrollment to 18.

- **Can I take more than one first-year seminar?**

Students registered for more than one FYS will be advised to drop all but one. As an exception to the rule, a First-Year Writing Requirement (FYWR) seminar will not be counted in the policy restricting students to only one FYS per term.

- **How many seminar spaces are available each term?**

An “advanced find” in the online Course Guide for First-Year Seminars can help. Typically, about 75-80 seminars are scheduled in Fall term with approximately 1,300 available spaces. Another 55-60 seminars are offered in Winter term with approximately 850 spaces. While students may not always be able to enroll in their first choice, most are able to find space in a seminar that interests them.

- **Why does the FYS Program not include some courses or sections listed as "first-year seminars" in the First-Year Course Guide?**

The FYS Program lists only seminars that conform to specific guidelines concerning factors such as faculty rank, enrollment restrictions, class format, and size.

Theme Semester

Imagine the U-M community collectively exploring ideas around a common theme. Water, for example. Or the universe. Or language.

Theme Semesters provide exactly this opportunity. Anchored in the College of LSA, Theme Semesters provide intellectual and cultural immersion in a particular topic across U-M. Students combine coursework with lectures, museum exhibits, music or theater performances, film series, and more.

This exploration doesn't just stay inside the academy, either. Theme Semester events are generally open to the public and are done frequently in collaboration with community organizations.

Theme Semesters have been an integral part of the teaching and learning experience on campus for more than two decades, connecting the great intellectual and cultural strengths of the University of Michigan to the issues defining our world today.

Courses

LSA offers a large number of courses in support of theme semesters. These can be found in the **special offerings section of the LSA Course Guide**.

Student Travel Guidance During COVID

U.S. OFF-CAMPUS TRAVEL & ENGAGED LEARNING GUIDANCE DURING COVID-19 (including University sponsored internships)

For off-campus internship experiences and related support:

1. If you are an LSA student planning to participate in an off-campus internship you may determine it is essential to your educational experience.
2. If your internship is an off-campus*, U-M related internship you must follow the **U-M guidelines for off-campus travel**. This includes internships funded, sponsored, managed by the University and/or if they are for credit or required for degree completion.
3. **These guidelines do not apply to activities that are not UM-related.** See **Global Michigan** for a complete definition of UM-related.

*Please note: Because of COVID-19, most countries outside of the United States remain a **U-M Travel Restriction** and all undergraduate **U-M related travel to U-M Travel Restriction destinations is prohibited.**

STEM

LSA offers rigorous courses in science, technology, engineering, and math, as well as support and resources to help you succeed. At LSA, you'll enjoy many opportunities to explore STEM fields in and out of the classroom while gaining a broad liberal arts perspective. **Hint: Use the Natural Sciences filter on the Majors and Minors page to see STEM options.**

Join the Clubs

U-M has hundreds of STEM-related clubs and organizations. Explore a selection of clubs below or check out the complete list of clubs on **Maize Pages**.

- Student Astronomical Society
- Black Undergraduate Medical Association
- Biology and Neuroscience Clubs
- Biophysics Club
- Chemistry Clubs
- Michigan Data Science Team
- GeoClub
- Girls Who Code
- Math Clubs
- Physics Club

What Will You Do with an LSA Degree?

Major Impact

The data visualized here represents alumni reported career fields matched with their corresponding LSA degrees. Data was collected by our **College Connections** team through over 8,000 interviews of LSA alumni with grad years spanning back to 1942. The visualization below represents a segment limited to graduates from 1942–2021.

The value of this visualization is its ability to clearly show the pragmatic value and flexible nature of an LSA degree—grads from each major find employment in nearly every career field, and each career field is comprised of LSA grads from almost every major. And while each career field has some expected paths, there are also many surprises.

Please visit our **Majors and Minors** page to explore the myriad options currently available in the College of LSA and start down your own path.

LSA Departments and Programs

Majors and Minors

This document is an unofficial representation of the information available on the LSA website

Majors and Minors

LSA offers more than 85 majors, sub-majors, and other degree programs, as well as more than 100 minors. Majors and minors are facilitated by over 75 academic units and programs that span 41 departments. Use the list below to get more information on majors, minors, and the departments and programs that administer them.

In addition to the Bachelor of Arts or Bachelor of Science programs listed below, the College offers a Bachelor in General Studies (BGS).

Academic policies governing majors, minors, and supplemental studies can be found in the Degrees and Requirements section of this website.

Curious about how your major might affect your career possibilities? Visit "What Will You Do with an LSA Degree?" to see what LSA alums are up to now and how their choice of major—or majors—ultimately impacted their careers.

Prospective Students: If you are planning to visit campus and would like to schedule an appointment with an academic department, please contact the department directly by phone. Click the Website button in the program descriptions below; phone numbers can then be found in the footer of each department website. Appointments will typically run up to 30 minutes. Please request an appointment at least two weeks in advance. For more information on how to make the most of your appointment, review the Visit Campus page.

Archive copies of past LSA bulletins can be found here.

Afroamerican and African Studies Major

Majoring in Afroamerican and African Studies will allow you to develop a comprehensive understanding of Africa and its diaspora: the varied cultures of African-descended people around the world. While exploring different geographical regions, cultures, historical periods, and political contexts, you will develop expertise about one of the geographical regions central to our curriculum: Africa, African America, or the African Diaspora broadly conceived, and you will develop specialized knowledge in your chosen field (e.g., Popular Culture and New Media; Health; Gender and Sexuality Studies).

Effective Fall 2020

Exclusions:

A major in Afroamerican and African Studies is not open to students with a minor in the Department of Afroamerican and African Studies.

Advising

A team of DAAS faculty and staff is available to advise students. Students can make an appointment with an advisor through our department website, contact an advisor by email (daasadvising@umich.edu), or drop by the department during advising hours to meet with an advisor.

Students are also encouraged to relax or study in the Lemuel Johnson Center (room 5511) and to attend DAAS community events where our advisors are often present.

Prerequisites

None.

Requirements

Minimum Credits: 28

1. Complete two of the following three gateway courses:
 - AAS 200 (Introduction to African Studies)
 - AAS 201 (Introduction to African American Studies)
 - AAS 202 (Introduction to African Diasporic Studies)
2. Complete two 300-level comparative or global courses that compare different geographical regions, historical periods, political contexts, or cultural contexts. Choose from: AAS 303, 304, 309, 322, 323, 324, 346, 354, 359, 362, 365, 366, 381, 384.
3. Complete four AAS electives chosen in consultation with a DAAS advisor or faculty. In selecting electives, students may find it helpful to organize their curriculum according to one of the following themes: Environmental Studies; Expressive Arts; Gender and Sexuality Studies; Global Political Economies; Health; Law, Politics, and Social Justice; Migrations and Humanitarianism; Popular Culture and New Media; or Religion and Spiritual Practice. See the DAAS website for a comprehensive list of AAS courses organized by theme.

Two of these electives must be at the 300- or 400-level

4. Students who declare a major in Afroamerican and African studies must complete at least one AAS ULWR course. This course can be used to fulfill other requirements in the major, and can also be used to fulfill the college ULWR if the student receives a C- or better.. Additionally, DAAS Honors students may use their Honors Thesis to meet this requirement (see Honors section below for details)
5. Complete the DAAS-In-Action course, AAS 498.

Distribution Policy

No course used to fulfill a major requirement may be used toward the LSA Distribution Requirement. In addition, courses in the AAS subject area may not be used toward the Distribution Requirement.

Honors

AAS majors who want to declare the Honors subplan can do so through an independent study process that leads to an Honors thesis. Students wishing to pursue Honors must have a 3.4 overall GPA and a 3.5 GPA in AAS courses. Students interested in this opportunity should contact the

department no later than the end of their junior year.

College Honors students can also use their honors thesis to meet the ULWR.

Afroamerican and African Studies Minor

Minoring in Afroamerican and African Studies will allow you to develop a comprehensive understanding of Africa and its diaspora: the varied cultures of African-descended people around the world. While exploring different geographical regions, cultures, historical periods, and political contexts, you will develop expertise about one of the geographical regions central to our curriculum: Africa, African America, or the African Diaspora broadly conceived, and you will develop specialized knowledge in your chosen field (e.g., Popular Culture and New Media; Health; Gender and Sexuality Studies).

Effective Fall 2020

Exclusions:

A minor in Afroamerican and African Studies is not open to students with a major in the Department of Afroamerican and African Studies.

Advising

Students wishing to pursue a minor in Afroamerican and African Studies must develop a specific plan for its completion in consultation with the department's designated advisor. A team of DAAS faculty and staff is available to advise students.

Students can make an appointment with an advisor through our **department website**, contact an advisor by email (daasadvising.umich.edu), or drop by the department during advising hours to meet with an advisor.

Students are also encouraged to relax or study in the Lemuel Johnson Center (room 5511) and to attend DAAS community events where our advisors are often present.

Prerequisites

none.

Requirements

Minimum Credits: 15

1. Complete two of the following three gateway courses:
 - AAS 200: Introduction to African Studies
 - AAS 201: Introduction to African American Studies
 - AAS 202: Introduction to African Diasporic Studies
2. Complete one 300-level comparative or global course that compares different geographical regions, historical periods, political contexts, or cultural contexts. Choose from: AAS 303, 304, 309, 322, 323, 324, 346, 354, 359, 362, 365, 366, 381, 384.
3. Complete one 300- or 400-level AAS elective.

4. Complete the DAAS-In-Action course, AAS 498.

American Culture Major

The U-M Program in American Culture is among the most dynamic units on the campus. Its intellectual development focuses on a rethinking of interdisciplinarity. In the spirit of the most creative and responsible scholarship of the new millennium, the Program is moving its intellectual center beyond a coalition of disciplinary specialists laboring in a collaborative relationship and toward the production of scholars whose accomplishments express a genuine synthesis of methods. Moreover, a critical constituent of this process is the reformulation of a vision of American cultures without borders, in an international framework, and with the study of Asian Americans, Latina/os, Native Americans, Arab Americans, and African Americans pivotal to teaching and research. Our goal is to enrich the investigation of American culture by engaging in a refashioning of the more traditional areas of the field of American Studies, together with attentiveness to budding subjects of new study within disciplines across the social sciences and humanities.

The Program in American Culture exposes students to the interdisciplinary study of U.S. society and culture. Our courses integrate a rich array of materials, themes, and approaches from many fields: not only historical and literary study, but also visual studies, musicology, film and media, anthropology, and others. The curriculum of the Program emphasizes the multicultural diversity of American society, paying particular attention to ethnic, gender, and other forms of social difference and inequality. At the same time, it stresses the importance of studying U.S. nationhood, including Americans' (sometimes conflicting) ideals and experiences of what it means to be American. Our courses are designed to explore these issues in both historical and contemporary settings.

Although the major in American Culture offers considerable flexibility and intellectual diversity, it also is designed to foster a community of learning among undergraduates. The Program aims to be an interdisciplinary "village" within the larger College, in which majors share the opportunity for intensive study, conversation, and research about American society and culture.

Effective Winter 2014

Advising

Students are encouraged to discuss their academic program and related concerns with the American Culture department advisor. Appointments are scheduled on the American Culture Department's website under academic advising. For questions of immediate concern or general questions about the major, students may speak with the Undergraduate Administrator by calling 734.763.1460, emailing ac.inq@umich.edu, or by coming to 3700 Haven Hall.

Prerequisites

None.

Requirements

Minimum Credits: 28

The General Program:

1. **Core course:** AMCULT 300: Practices of American Culture.

2. **Capstone:** AMCULT 498: Capstone Seminar in American Culture.
3. **Breadth Requirements:** Students must also have classes focused on the following Breadth Requirements at the 200-level or higher. Depending on content, one course might satisfy two or more of these requirements.
 - Pre-Twentieth-Century United States
 - Transnationalism, Diaspora, and/or Empire
 - Women, Gender, and/or Sexuality
 - Ethnic and/or Indigenous Studies
4. **Electives:** Students must elect additional courses at the 200 level or higher under American Culture (AMCULT) and/or any of American Culture's Ethnic Studies SUBJECT Codes (LATINOAM, ASIANPAM, NATIVEAM, ARABAM) to reach the 28 minimum credits required for the major. (Includes Breadth Requirement courses).

Optional Sub-Major: **Ethnic Studies**

Constraints

No more than 9 credits at the 200 level can be counted toward the major.

Distribution Policy

No course used to fulfill a major requirement may be used toward the **LSA Distribution Requirement**. In addition, courses in the AMAS, AMCULT, ARABAM, ASIANPAM, LATINOAM, and NATIVEAM subject areas may not be used toward the Distribution Requirement.

Honors

American Culture Honors provides an opportunity for majors in American Culture and Latina/o Studies to complete a comprehensive, original independent project under the guidance of a faculty member as the culmination of their undergraduate studies. Honors requirements consist of regular American Culture or Latina/o Studies requirements plus the Honors requirements.

American Culture and Latina/o Studies majors with a grade-point average of 3.5 or higher in the major may apply for the Honors major. Students usually apply in the fall term of their junior year.

Honors requirements spans three terms.

- In the second term of the junior year, the student must successfully complete AMCULT 398, which involves preparing a thesis prospectus and bibliography and identifying a supervising faculty advisor and a second reader.
- In both terms of the senior year, the student will enroll in AMCULT 493 (3 credits per term) to research and write the thesis.
- participation in three Friday colloquia. Colloquia will focus on peer response to work in progress, as well as on topics of particular usefulness to a given cohort of students. The series will be facilitated by the Director of Undergraduate Studies and is intended to provide seniors with ongoing mentoring.

The primary advisor and the second reader determine the designation of Honors (Honors, High Honors, Highest Honors).

Ethnic Studies (Sub-Major)

The Ethnic Studies sub-major allows for students to work within existing Ethnic Studies programs, but also allows for cross-cutting and comparative plans of study. The sub-major will guide students interested primarily in the ethnic studies dimensions of American studies through a fruitful course of study, rewarding them with a mark of their achievement.

This sub-major builds on the existing American Culture major, but identifies a clear path within it modeled on the existing Ethnic Studies minors. Like the existing Ethnic Studies minors, students begin with an "Intro" course, which introduce key terms, concepts, and disciplinary approaches. Students are then asked to choose four additional electives from rich offerings in Ethnic Studies (ARABAM, ASIANPAM, LATINOAM, NATIVEAM, and AMCULT/AAS courses).

Effective Winter 2021

Prerequisites

none.

Requirements

Minimum Credits: 28

To have a notation of the Ethnic Studies submajor appear on your transcript, you must successfully complete the following in your American Culture major elective credits in addition to the other American Culture major requirements:

A) One of the following introductory ethnic studies courses:

AAS 201: Intro to Afro-American Studies

LATINOAM 213: Intro to Latina/o Studies

ASIANPAM 214: Intro to Asian/Pacific Islander American Studies

ARABAM 215: Intro to Arab American Studies

ARABAM 216: Intro to American Muslims

NATIVEAM 217: Intro to Native American Studies

B) four additional approved Ethnic Studies courses in consultation with an advisor.

Ethnic Studies electives may be chosen from any ARABAM; ASIANPAM; LATINOAM;

NATIVEAM; AMCULT/AAS courses; or approved courses.

American Culture Minor

American Culture offers a general minor in addition to minors from our Latina/o Studies, Native American Studies, and Asian/Pacific Islander American Studies units. The American Culture minor gives skills, information, and techniques from a wide variety of perspectives and disciplines. Students engage comparative ethnic studies, history, literature, film/media studies, religion, music, art, digital technologies, women's studies, folklore, sexuality studies, and ethnography. Our curriculum allows students a better understanding of the nation's diversity and the U.S.'s role in a global context. We explore what it has meant — and continues to mean — to claim to be an

"American." The department also offers a minor in Digital Studies.

American Culture's general minor is flexible to allow students to chart their own trajectory. Students should consult with the department's designated advisor to discuss their interests and plan.

American Culture's general minor is an ideal companion degree for any student interested in law, medicine, business, marketing, museum studies, or graduate school in the humanities and social sciences. A minor in American Culture signals that a student can engage with the nation's ever-increasing diversity intelligently and critically. Because of the plethora of disciplines, interdisciplinary faculty, and geographic reach designed into the American Culture curriculum (which stretches far beyond the bounds of the continental United States), this minor is a valuable intellectual resource for any career.

This minor is aimed at students with interests in understanding how they came to know their role in the United States. The general American Culture minor encourages students to take an ensemble of courses focusing on, for example, comparative ethnic studies, popular culture, gender and sexuality studies, digital technologies, media and society, or contemporary social issues.

Effective Winter 2013

Exclusions:

Not open to students with a major in American Culture.

Advising

Students are encouraged to discuss their academic program and related concerns with the American Culture department advisor. Appointments are scheduled on the American Culture Department's website under academic advising. For questions of immediate concern or general questions about the major, students may speak with the Undergraduate Administrator by calling 734.763.1460, emailing ac.inq@umich.edu, or by coming to 3700 Haven Hall.

Prerequisites

None.

Requirements

Minimum Credits: 15

1. One AMCULT course (3 credit) at 200-level, or higher (AMCULT 222 and 223 are excluded).
2. AMCULT 300: Approaches to American Culture (3 credits).
3. Three additional courses (9 credits total) at 300-level or higher. In consultation with the American Culture department advisor, students will plot their own path toward the minor through these additional courses.

Anthropology Major

The undergraduate Anthropology Program emphasizes the commitment of this department to four-field anthropology, providing exposure to Anthropological Archaeology, Biological Anthropology, Sociocultural Anthropology and Linguistic Anthropology. This approach serves Anthropology's intellectual goal to achieve a comprehensive, comparative, and innovative

understanding of humanity.

An undergraduate major in Anthropology contributes to a liberal arts education, offering a disciplined awareness of human behavior that forms the basis for problem solving in an increasingly complex world, wherever the major takes you.

As an Anthropology major, you will learn about

- the importance of human diversity (biological and cultural) in the past and present and why diversity matters for our future
- how human bodies and minds are shaped both by our present environments, and our species' evolutionary past
- the ways in which race is socially constructed and how that translates to real-world biological consequences

You will also learn important skills, such as

- The ability to incorporate different cultural perspectives in your critical thinking
- Cultural competency
- The diversity of methods anthropologists use to study our human past and present, including qualitative, quantitative, and mixed methods approaches

The department also offers six optional sub-majors for students who want to pursue deeper knowledge in a specific aspect of Anthropology.

Effective Fall 2016

Advising

The department offers undergraduate majors for a bachelor's degree in Anthropology and Evolutionary Anthropology; minors are offered in Medical Anthropology, Biological Anthropology, and Anthropology (with tracks in Sociocultural Anthropology, Linguistic Anthropology, and Archaeological Anthropology).

All anthropology faculty members are available for informal discussion with students during scheduled office hours (check the Department office for times).

Department advisors are available to explain program objectives and requirements and to help with the planning of your program.

Students wishing to pursue a minor in the Department of Anthropology should contact the undergraduate advisor with any questions.

Appointments are scheduled in the Department office or online at: <http://lsa.umich.edu/anthro/undergraduates/advising>

Prerequisites

None, but ANTHRCUL 101 is recommended.

Requirements

Minimum Credits: 34

At least 34 credits at the 200-level or above are required:

Choose at least one course in each of the following subfields

1. **Anthropological Archaeology:**

- ANTHRARC 282: Introduction to Prehistoric Archaeology (4)
- ANTHRARC 386: Early Civilizations

2. **Biological Anthropology:**

- ANTHRBIO 201: Introduction to Biological Anthropology (4)

3. **Linguistic Anthropology:**

- ANTHRCUL 272: Language in Society (4)
- ANTHRCUL 374: Language and Culture (4)

4. **Sociocultural Anthropology:**

- ANTHRCUL 222: The Comparative Studies of Culture (4)
- ANTHRCUL 226: Introduction to Historical Anthropology (4)
- ANTHRCUL 230: Fundamentals of Social Theory (4)
- ANTHRCUL 330: Culture, Thought, and Meaning (4)

Other credits are taken from ANTHRARC, ANTHRBIO, or ANTHRCUL courses with a minimum of four courses at the 300-level or above, at least one of which must be at the 400-level.

Constraints

A maximum of 6 credits of independent research can be counted toward the major.

Residency

At least 20 credits must be completed in residence at the University of Michigan.

Distribution Policy

No course used to fulfill a major requirement may be used toward the LSA Distribution Requirement. In addition, courses in the ANTHRARC, ANTHRBIO, and ANTHRCUL subject areas may not be used toward the Distribution Requirement.

Honors

Students interested in scholarly research are encouraged to consider the Honors major. Previous participation in the College Honors program is not a prerequisite. Seniors admitted to the Honors major normally elect a seminar in their special field of interest: biological anthropology (ANTHRBIO 398), archaeology (ANTHRARC 398) or sociocultural or linguistic anthropology (ANTHRCUL 398). The seminars give students an opportunity for intensive training and research experience; the Honors major requires a senior thesis. Interested students should consult an Anthropology advisor for more information.

Teaching Certificate

Students interested in obtaining a secondary teaching certificate with a teaching minor in Anthropology should consult the "Teacher Certification Program" on the LSA website and the School of Education Office of Academic Services.

Anthropology Minor

Anthropology at the University of Michigan emphasizes four-field training. Our majors gain anthropological understanding of the human condition through exposure to Sociocultural

Anthropology, Biological Anthropology, Anthropological Archaeology, and Linguistic Anthropology and their many interrelationships. Many students, however, take our courses to supplement other majors or out of general interest and have less need for four-field training. Academic minors in anthropology may benefit these students, providing structure to their course elections, and allowing thoughtful integration of anthropology into their academic plans. The department offers three minors: Anthropology, Biological Anthropology, and Medical Anthropology.

The sub-disciplines of anthropology are natural complements to many majors. The minor in Anthropology allows students with particular regional or topical interests to add an anthropological perspective to their studies, whether sociocultural, linguistic or archeological. Students may choose a track that emphasizes Sociocultural Anthropology, Linguistic Anthropology, or Anthropological Archaeology.

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Effective Winter 2008

Exclusions:

The Anthropology minor is not open to students with any major or any other minor in the department of Anthropology.

Advising

The department offers undergraduate majors for a bachelor's degree in Anthropology and Evolutionary Anthropology; minors are offered in Medical Anthropology, Biological Anthropology, and Anthropology (with tracks in Sociocultural Anthropology, Linguistic Anthropology, and Archaeological Anthropology).

All anthropology faculty members are available for informal discussion with students during scheduled office hours (check the Department office for times).

Department advisors are available to explain program objectives and requirements and to help with the planning of your program.

Students wishing to pursue a minor in the Department of Anthropology should contact the undergraduate advisor with any questions.

Appointments are scheduled in the Department office or online at: www.lsa.umich.edu/anthro/undergraduates/advising

Prerequisites

None.

Requirements

Minimum Credits: 16

At least five courses (no fewer than 16 credits) in one "track" to be chosen from the following tracks, as described below.

1. Sociocultural Anthropology

- a. One general introduction to anthropology: ANTHRCUL 101 or 222.
- b. One upper-level course in anthropological theory from those designated Sociocultural

- Anthropology- Theory/Method.
- c. Three anthropology courses, chosen in consultation with the advisor. At least one must be at the 400-level, one must be a regional course.
2. **Linguistic Anthropology**
 - a. One general introduction to anthropology; ANTHRCUL 101 is recommended.
 - b. ANTHRCUL 272.
 - c. At least three upper-level courses from those listed under Linguistic Anthropology.
 3. **Anthropological Archaeology**
 - a. ANTHRARC 282.
 - b. ANTHRARC 385 or 386.
 - c. Three additional regularly offered courses in anthropological archaeology, two of which must be 300-level or above, chosen from ANTHRARC 258, 285, 283, 284, 381, 382, 383, 385, 386, 392, 394, 407, 442, 482, 484, 490, or 495.
 - d. Other less regularly taught courses in anthropological archaeology may also be used. Consult the department advisor for more information. Field courses (ANTHRARC 400 or 487) and Independent Reading and Research (ANTHRARC 499) may not be used toward the minor.

Arab and Muslim American Studies Minor

Today, an estimated 3.5 million Arab Americans and an overlapping 8 million Muslim Americans live in the United States. Michigan is a major center for these massive and growing populations. The Detroit metropolitan region has the largest concentration of Arab Americans in the nation (almost half a million). Moreover, the Arab region and its diasporas have become increasingly central to U.S. history, diplomacy, and politics. Immigration and displacement by war and the forces of global economy are among the factors that have sparked movements of Arab people to the United States. Since September 11, 2001, there has been increased national attention to Arab and Muslims Americans and a scholarly renaissance in the field.

Courses in Arab American Studies provide an interdisciplinary study of Arab American histories, literatures, and cultures. We address the historical and current experiences of Arab Americans in the United States and the relevance of those experiences for understanding race and ethnicity in the U.S. and globally. Courses explore themes such as immigration history; racism and discrimination; gender and sexuality; media representations; the local and global impacts of war and violence on Arabs and Arab Americans; intellectual, artistic, and cultural contributions; and relationships with other racial and ethnic groups. This curriculum provides knowledge vital for a critical understanding of the contemporary United States in a global context. The Program in American Cultures offers the following courses in Arab American Studies: "Why do they Hate Us?: Perspectives on 9/11", Arab American Literature", Introduction to Arab American Studies, Muslim Americans, Arab Women: Homelands and Diasporas, Immigrant and Racial Politics after September 11th, Representing the Middle East in Hollywood Cinema. Courses may also be offered in other departments or cross listed in American Culture. Faculty members teaching in this area include Nadine Naber and Evelyn Alsultany.

This minor is intended for students interested in Arab and/or Muslim diasporas and who wish to develop a coherent understanding of the cultural politics of being Arab and/or Muslim in the U.S. and the contributions of Arabs/Muslims in American culture. Students will draw on the Arab and

Muslim American Studies minor to supplement and make more coherent their understanding of the knowledge formed in a traditional discipline. For instance, students with interests in Arab and/or Muslim American identities, experiences, culture, or politics, who are majoring in a traditional humanities or social science discipline can enhance and deepen their thinking about Arabs and/Muslim communities by taking a systematic supplement of courses designed around those populations. Students majoring in Near Eastern Studies, International Studies, Public Policy, Anthropology, Sociology, History, English, Intergroup Relations, Political Science, and Women's and Gender Studies would take particular interest in this minor, as well as those majoring in American Culture.

The minor in Arab and Muslim American Studies offers students:

- An interdisciplinary approach to Arab and Muslim American studies that integrates research and teaching methods from various fields, such as history, media studies, religious studies, literature, anthropology, and sociology, among others
- A transnational approach that highlights the relationship between Arab and Muslim homelands and diasporas
- Comparative approaches that place the understanding of Arab and Muslim American history and experiences in relation to other racial, ethnic, religious, or immigrant groups
- Community-based approaches that link universities with Arab and Muslim American communities through internships and collaborative projects

Minors in American Culture

American Culture offers a general minor in addition to minors from our Latina/o Studies, Native American Studies, and Asian/Pacific Islander American Studies units. The American Culture minor gives skills, information, and techniques from a wide variety of perspectives and disciplines. Students engage comparative ethnic studies, history, literature, film/media studies, religion, music, art, digital technologies, women's studies, folklore, sexuality studies, and ethnography. Our curriculum allows students a better understanding of the nation's diversity and the U.S.'s role in a global context. We explore what it has meant — and continues to mean — to claim to be an "American." The department also offers a minor in Digital Studies.

Effective Fall 2016

Advising

The designated Director of Arab American Studies will be responsible for advising most students with the assistance of the American Culture Undergraduate Program Coordinator and Ethnic Studies Associate. Both the Associate Chair and the Chair will provide back-up advising. Students interested in pursuing a course of study in the field should contact American Culture's designated advisor. Appointments are schedule online at <http://lsa.umich.edu/ac/undergraduates/advising.html>

Prerequisites

None.

Requirements

Minimum Credits: 15

At least one course must be at the 300- or 400-level, and at least three courses must be taken in

American Culture (AMCULT) or Arab American Studies (ARABAM).

1. **Survey courses:** Any 200-level ARABAM course.
2. **Electives.** At least two additional courses (6 credits) offered by American Culture/Arab American Studies providing interdisciplinary study of Arab and/or Muslim American histories, literatures, and cultures, chosen from the list below or selected in consultation with and approved by the Arab and Muslim American Studies minor advisor:
 - AMCULT 311: Topics in Ethnic Studies, *section titled "Camels, Kabobs and Kahlil: Arab American Cultural Studies"*
 - AMCULT 498: Capstone Seminar in American Culture, *section titled "Why Do They Hate Us: Perspectives on 9/11"*
 - ARABAM 236 / AMCULT 236: Muslims in America
 - ARABAM / AMCULT 248: Arab America: Art, Cultural Politics, and Activism
 - ARABAM 290 / AMCULT 290: Arab American Literature
 - ARABAM 311: Arab American Studies and the Humanities, *section titled "Camels, Kabobs and Kahlil: Arab American Cultural Studies"*
 - ARABAM / AMCULT 330: Camels, Kabobs, and Kahlil Gibran: Arab American Cultural Studies
 - ARABAM 390 / AMCULT 390: Internship in Arab and Muslim American Studies
 - ARABAM 498: Capstone Seminar in Arab American Studies, *section titled "Why Do They Hate Us: Perspectives on 9/11"*
3. **Electives.** Two additional courses (6 credits) in American Culture/Arab American Studies, or in another department. These electives may be chosen from the list below or selected in consultation with and approved by an American Culture advisor.

Courses in other departments providing comparative, transnational, or broader perspectives on Arab and Muslim Americans.

- ANTHRCUL 409: Peoples and Cultures of the Near East and North Africa
- ASIAN 324 / HISTORY 325 / MIDEAST 375 / MEMS 325 / RELIGION 325: The History of Islam in South Asia
- ENGLISH 280: Introduction to Digital Cultures, *section titled "Writing Islam"*
- ENGLISH 317: Literature and Culture, *section titled "Arab American Literature"*
- HISTART 285 / MIDEAST 285: Visual Culture Islam
- HISTORY 241: America and Middle Eastern Wars
- HISTORY 243 / MENAS 243: Islamic World History
- HISTORY 324: Muslims in Contemporary Europe
- HISTORY 325 / MIDEAST 375 / ASIAN 324 / MEMS 325 / RELIGION 325: The History of Islam in South Asia
- HISTORY 443 / MIDEAST 487: Modern Middle East History
- HISTORY 449: Topics in Middle Eastern History
- MEMS 325 / HISTORY 325 / MIDEAST 375 / ASIAN 324 / RELIGION 325: The History of Islam in South Asia
- MENAS 243 / HISTORY 243: Islamic World History
- MENAS 493 / MIDEAST 483: Comparative Perspectives of the Middle East and North Africa
- MIDEAST 200: Introduction to the Middle East
- MIDEAST 285 / HISTART 285: Visual Culture Islam
- MIDEAST 322 / RELIGION 363: The Qur'an and Its Interpretations
- MIDEAST 323: The Prophet Muhammad in Islam
- MIDEAST 325: Introduction to Arab Literature in Translation

- MIDEAST 326: The Arab-Israeli Conflict in Middle Eastern Literature
- MIDEAST 375 / HISTORY 325 / ASIAN 324 / MEMS 325 / RELIGION 325: The History of Islam in South Asia
- MIDEAST 429: Topics in Modern Arabic Literature in Translation
- MIDEAST 487 / HISTORY 443: Modern Middle East History
- MIDEAST 483 / MENAS 493: Comparative Perspectives of the Middle East and North Africa
- REEES 490 / SOC 490 / WOMENSTD 492: Women and Islam: A Sociological Perspective
- RELIGION 325 / HISTORY 325 / MIDEAST 375 / ASIAN 324 / MEMS 325: The History of Islam in South Asia
- RELIGION 363 / MIDEAST 322: The Qur'an and Its Interpretations
- SOC 218 / UC 218: Foundations of Intergroup Relations
- SOC 490 / REEES 490 / WOMENSTD 492: Women and Islam: A Sociological Perspective
- UC 218 / SOC 218: Foundations of Intergroup Relations
- WGS 492 (WOMENSTD 492) / SOC 490 / REEES 490: Women and Islam: A Sociological Perspective
- Another course with significant Arab or Muslim content from another department, contingent on approval from an Arab and Muslim American Studies minor advisor.

Constraints

One 300- or 400-level Arabic language courses or other relevant language can be applied toward the minor with the consent of the AMAS advisor (no more than three credits can be applied toward the minor)

Art & Design (Minor)

The Stamps School of Art & Design offers a minor in (studio) Art & Design to provide non-majors with a more nuanced and sophisticated understanding of the creative processes and skills important to visual inquiry and communication. This minor is unique in that it adds making, hands-on material investigation and manipulation, to the academic skills of research and scholarship. By engaging in a structured process of conveying ideas and information through visual images and tangible forms, students who are not visual art and design majors gain a richer understanding of themselves and the world. They come to understand that there are many ways of seeing, many ways of addressing problems and expressing concerns, and many concepts that can be best communicated through visual means. Students who wish to develop the skills emphasized in art and design classes – namely design principles and visual composition; envisioning what does not yet exist; constructing tangible solutions to complex, open-ended questions; tools and techniques relevant to a wide range of material processes, expressive agility; iterative idea development and prototyping; critical thinking and analysis of sensory experience; and collaborative effort – are one of the target audiences for the minor. Students who desire a cohesive program of study and greater expertise in a specific area of art or design, for example, graphic design, are also suited to the minor. Other students may wish to supplement their major with a minor that offers an approach different from those employed in the liberal arts. Some students may feel the want of sustained art and design practice in their education and seek to remedy that deficiency by pursuing a minor in some area of endeavor unrelated to the major, such as painting or illustration. Much as the major in Art & Design does, the minor allows students flexibility in crafting their course of study while providing a framework that ensures the final product will have its own integrity.

For students interested in design thinking, visual composition, working collaboratively, critical thinking and analysis, and gaining skills with tools and techniques relevant to a wide range of material processes, the Stamps School offers an eighteen-credit minor in studio art and design to students in the following programs:

- Literature, Science and the Arts (LSA)
- School of Music, Theatre & Dance
- School of Information
- College of Engineering
- Taubman College of Architecture and Urban Planning
- Ross School of Business
- School of Kinesiology
- School of Public Health

Art & Design Minor Requirements

- Two 100-level studios (minimum 6 credits; see below for details)
- Two 200-level studios (minimum 6 credits)
- One 300-level studio (minimum 3 credits)
- Minimum three academic credits
- To become a declared minor, students must have a currently declared major.

See full, step-by-step information by clicking the drop-down menus below.

Step 1: Get Started

- Explore the Art & Design Minor Canvas course for more information.
- Attend a *Minor in Art in Design* info session. If you have questions, please email stamps-minor-advising@umich.edu.

Step 2: Make it Official

In any order, complete two 3-credit courses, one from Group A and one from Group B:

A. Drawing Studio: *Drawing: Observation* (ARTDES 100) or *Drawing: Visualization* (ARTDES 105)

B. Dimensional Studio: *Studio 2D* (ARTDES 115), *Studio 3D* (ARTDES 120) or *Studio 4D* (ARTDES 125)

Once you have finished *both* of these courses, you're ready to apply for your minor by completing the Stamps Minor Application Form. This form indicates that you've completed the first two prerequisite courses, discussed the Art & Design Minor with a Stamps advisor, and established a plan of study.

Step 3: Choose Courses

With the help of your minor advisor and the Stamps Course Guide, choose **four courses** (minimum 12 credits) as follows:

1. **Two 200-level studio courses** (*minimum 6 credits*).

Options offered at Stamps include **ARTDES 200 - 299**, a wide variety of introductory courses focused on developing skills in specific studio areas. 200-level classes are often prerequisites for more advanced studios.

A maximum of one University of Michigan 200-level studio course offered outside the Stamps School (a non-ARTDES studio) can also count toward this requirement. Choosing a non-ARTDES studio course may result in not having the appropriate prerequisites for higher level courses. Non-ARTDES minor course options are:

ARCH 255, Imaging + ARCH 256, Immersion (4 credits)
ARCH 257, Assembly + 258, Translation + 259, Orientation (Choose 2 of the 3 courses = 4 credits)
MECHENG 250, Design & Manufacturing I
PAT 201, Intro to Computer Music
PAT 202, Computer Music
PAT 280, Sound Reinforcement
RCARTS 260 Photography I
RCARTS 270 Sculpture I
RCARTS 250 Printmaking I
RCARTS 290 Ceramics I
FTVM 290, Intro to Media Production
THREMUS 240, Intro to Design
THREMUS 256, Lighting Design I
THREMUS 260, Scene Design I
THREMUS 263, Design Rendering
THREMUS 270, Costume Design I
UARTS 250, Creative Process

2. **One 300-level studio course (minimum 3 credits).**

Options offered at Stamps include **ARTDES 300 - 389**, a variety of more advanced, project-based courses where you can apply and refine the skills acquired in introductory classes.

A maximum of one University of Michigan 300-level studio course offered outside the Stamps School (a non-ARTDES studio) can also count toward this requirement. Choosing a non-ARTDES studio course may result in not having the appropriate prerequisites for higher level courses. Non-ARTDES minor course options are:

ARCH 312, Architectural Design
PAT 331, Sound Recording I
PAT 380, Sound for Theatre
RCARTS 369 Photography III
RCARTS 399 Ceramics III
FTVM 300, Movie/Serial Television Production I
FTVM 304, Topics in Med Prod I
FTVM 305, The Experimental Screen
FTVM 306, Animation & Digital Media Practices I
THREMUS 356, Lighting Design II
THREMUS 360, Scene Design II
THREMUS 370, Costume Design II

Higher-level (400) studio courses can also count toward this requirement, with approval.

3. **One academic course (3 credits minimum)**, selected from the Minor Canvas Academic Course Requirement list in Canvas.

Art/design-related courses offered by other University of Michigan units can also apply to the minor. Please see this Canvas link for more information.

Step 4: Complete

Complete the Stamps Minor Release Form during your last year at U-M. The purpose of this release form is to inform the student and the student's home unit which courses for the Stamps Minor in Art & Design have been completed, and which courses are still required to complete this minor successfully. A completed minor consists of 6 courses (minimum 18 credits) as outlined above. You must return this completed form to your home unit to have your Stamps minor listed on your transcript.

Minor Policies

- The minor is open to all undergraduates who are not Stamps Majors and who have already declared a major.
- A portfolio is not required.
- All coursework must be selected from the list of approved courses.
- Test credits may not be used to meet the requirements of the minor.
- A maximum of two non-ARTDES studio courses can fulfill minor requirements (one at the 200-level, the second at the 300-level).
Students approved to declare the Stamps minor as of August 26, 2024 will only be able to use one non-ARTDES studio course to fulfill minor requirements (either at the 200 or 300 level)
- Students who are approved to declare the Stamps minor as of October 15, 2023 will only be able to elect to use the studios listed above to satisfy the Stamps minor.
- Students may not elect the pass/fail grading option for courses included in the minor.
- A maximum of one course may be shared between the requirements of a minor and a major.
- A student must earn an overall GPA of at least 2.0 in the minor, including any prerequisites necessary for completion of the minor.
- Students may not add, complete, or declare a minor after graduation.
- AP/IB test scores in studio art courses cannot be applied to the minor requirements

Arts & Ideas in the Humanities Major

The Arts & Ideas in the Humanities major guides students in the rigorous study of two or more arts and humanities fields of their choosing. It is an interdisciplinary program that combines the theoretical and historical approach in the humanities with a creative practice. Arts & Ideas students do not just think and write about the arts, they do the arts. The thinking is enriched by the doing, and the doing by the thinking. The Arts & Ideas major hones the skills of analytical writing and attentive looking, reading, and listening essential in any profession. Its integrated approach to the arts gives deeper meaning to these critical skills and, further, prepares students for rewarding work in a wide range of fields including, but not limited to, arts administration, development, and education. Many Arts & Ideas majors go on to careers in academe, business, law, and medicine.

Effective Winter 2022

Advising

1813 East Quadrangle
(734) 647-2745
www.lsa.umich.edu/rc

The Residential College (RC) is a four-year undergraduate liberal arts program with about 900 students and 60 faculty, situated within LSA. All RC advisors are RC faculty members and are available to meet with students to discuss RC and LSA requirements, possible majors, graduation requirements, etc. The RC Board on Academic Standing considers petitions submitted by RC students relating to requirements, deadlines, and academic circumstances. Appointments with academic advisors can be scheduled by calling the RC Academic Services Office at (734) 647-2745, or by stopping by the offices at 1813 East Quad.

Students wishing to pursue a major program in Arts and Ideas in the Humanities must develop a specific plan for its completion in consultation with the program's designated advisor. Appointments may be scheduled at the RC Advising Office, 1813 East Quad, or by calling (734) 647-2745 or online at: <https://lsa.umich.edu/rc/current-students/academic-services.html>

Prerequisites

None.

Requirements

Minimum Credits: 33

Cultural and Historical Perspectives: Of the total coursework in sections I-IV, at least one course must have a significant focus on the world before 1900 and at least one (separate) course must have a significant focus outside the English-speaking or European worlds. Courses fulfilling this requirement are to be determined in consultation with the Arts & Ideas Advisor

I. How to think in the Arts and Humanities: 6 credits

All majors are required to take 6 credits of How To Think courses, preferably in a balance of Arts and Humanities topics.

RCHUMS 201 - How to Think (Humanities)

RCHUMS 202 - How to Think (Arts)

II. Core Humanities: 6 credits

Must be fulfilled by courses listed below which have been specifically designed to treat at least two art forms.

RCHUMS 214 - Fundamentals of Narrative Fiction

RCHUMS 217 - Fathers and Sons

RCHUMS 218 - The Hero as Outsider, Outcast or Outlaw

RCHUMS 230 - Biblical, Greek, and Medieval Texts: Original Works and Modern Counterparts

RCHUMS 235 - Topics in World Dance

RCHUMS 251 - Topics in Music

RCHUMS 255 - Film Experience

RCHUMS 256 - Studying and Playing Southeast Asian Music

RCHUMS 257 - Visual Sources

RCHUMS / DANCE 260 - The Art of Dance: An Introduction to American and European Dance

History, Aesthetics, and Criticism

- RCHUMS 275 - The Western Mind in Revolution: Six Interpretations of the Human Condition
RCHUMS 290 - The Experience of Arts and Ideas of the 20th Century
RCHUMS 291 - The Experience of Arts and Ideas of the 19th Century
RCHUMS 304 - Time, History, Arts, and Culture
RCHUMS 305 - Art and Resistance
RCHUMS 306 - History of Writing
RCHUMS / ASIAN 308 - Art and Culture: Arts and Ideas of Modern South and Southeast Asia
RCHUMS 309 - Premodern Sources and Modern Culture
RCHUMS / SLAVIC 312 - Central European Cinema
RCHUMS 315 - Representation in the Arts
RCHUMS 317 - The Writings of Latinas
RCHUMS 318 - Critical Approaches to Literature
RCHUMS 319 - Topics in Film
RCHUMS 331 / THTREMUS 333 - Documentary Theatre
RCHUMS 333 - Art and Culture
RCHUMS 334 - Special Topics in the Humanities
RCHUMS / THTREMUS 335 - Theatre and Incarceration
RCHUMS / LATINOAM / THTREMUS 336 - Latina/o Theatre for Social Change
RCHUMS / ENVIRON 337 - Children Under Fire: Narratives of Sustainability
RCHUMS 338 - Growing Up Near the Great Lakes
RCHUMS 340 - Four Interdisciplinary Studies in 19th- & 20th-Century Intellectual History: Psychoanalysis, Mysticism, Nihilism and Marxism
RCHUMS 341 - Community Empowerment Through the Arts
RCHUMS 342 - Representing the Holocaust in Literature, Film and the Visual Arts
RCHUMS 344 / HISTART 342 - Reason and Passion in the 18th Century
RCHUMS 346 / HISTART 352 - Art and Philosophy in the Renaissance Tradition
RCHUMS / AAS / HONORS / WGS 354 (WOMENSTD 354) - Race and Identity in Music
RCHUMS 355 - Film Criticism
RCHUMS 356 - The Symphonic Century: Music and Revolution in the 19th Century
RCHUMS 357 - What Art Means: Analysis and Interpretation
RCHUMS 360 - Existentialism
RCHUMS 361 - Psychoanalysis and the Modern Novel
RCHUMS 364 - Nietzsche's Last Year: Final Vision and Mental Collapse
RCHUMS 365 / RELIGION 360 - Experiences of Atheism: A History of Skepticism and Unbelief
RCHUMS 371 - Political Modernism
RCHUMS 372 - The Subject in the Aftermath of Revolution
RCHUMS / ASIAN 373 - The Performing Arts in South and Southeast Asia
RCHUMS 380 - Greek Theatre
RCHUMS 410 - Upperclass Literature Seminar
RCHUMS 411 - Translation Seminar
RCHUMS 444 - George Balanchine and the Transformation of American Dance
RCHUMS 457 - Video Production Seminar: Fiction, Fantasy, Fairy Tale
RCHUMS 470 - Philosophy and Public Affairs
RCHUMS 472 - Arts and Ideas Senior Seminar

III. Core Arts: 6 credits

Courses fulfilling this requirement must focus on the practice of visual art, music, drama, film, or

creative writing. They may be chosen from appropriate offerings in RCHUMS, RCARTS, RCMUSIC and across the university at the 200-level or above. Select these courses in consultation with the Arts and Ideas advisor.

IV. Focus: 15 credits

Courses fulfilling this requirement converge around a single art form in deep historical and theoretical context, or two art forms in relation to each other. The rationale informing course selections in this section must be approved by the Arts & Ideas advisor.

Courses may be chosen from among offerings in RCARTS, RCHUMS, RCMUSIC, and across the university at the 300-level or above. RC Language Readings courses may be counted in this section. With advisor approval, courses taken abroad may also count.

Distribution Policy

No course used to fulfill a major requirement may be used toward the LSA Distribution Requirement.

Honors

To be eligible for an Honors subplan in Arts & Ideas, students should have a cumulative grade point average of at least a 3.4, and a 3.5 grade point average in courses counting toward the major. Students who elect an Honors degree will write an Honors thesis during the final year of their course work

Asian Languages and Cultures Minor

The minor in Asian Languages and Cultures provides a means for majors in other departments to add to their undergraduate program a substantial and structured course of study in an Asian language, combined with courses focused upon Asian culture. The minor offers guidance to students who want to acquire usable language skills and insures that the study of language is grounded in knowledge about the larger culture in which the language is historically produced and used. Undergraduates minoring in ALC will be equipped with specific linguistic capabilities and cultural knowledge they can apply to their inquiries within other disciplinary major. The minor can be elected in conjunction with any of the languages taught through the third year in ALC.

Effective Fall 2020

Exclusions:

A minor in Asian Languages and Cultures is not open to students with another minor in the Department of Asian Languages and Cultures.

Advising

Appointments are scheduled on the department's online advising calendar. Please go to www.lsa.umich.edu/asian for more information.

Students who have a formal or informal interest in Asian Studies are encouraged to consult a department advisor.

Grade Policies

No course will count toward the minor unless the student receives a grade of C- or better.

Prerequisites

Two years (fourth-term proficiency) in an Asian Language.

Requirements**Minimum Credits: 15**

At least 15 credits, chosen in consultation with and approved by a department advisor, in the following categories, as stated:

Language Requirement: At least two ASIANLAN courses at the 300-level or above of an Asian language taught within the department. Minors are encouraged to take language courses beyond third-year proficiency and also take courses to acquire a second Asian language.

Culture Requirement: At least one ASIAN course at the 300-level or above that is directly related to the language studied (e.g. a student studying Japanese should elect courses focused on Japan).

Residency

At least 6 of the credits must be elected at the University of Michigan or through an overseas program associated with the U-M.

Asian Studies Major

The major in Asian Studies offers students an opportunity to pursue interests in the traditional and modern civilizations of Asia. The particular courses to be counted toward the major will depend on the individual student's submajor. Students choose a submajor and then have the option to additionally focus on a field of study. An intellectually coherent combination of fields is permitted.

Effective Fall 2021

Exclusions:

Asian Studies majors must declare a submajor; only one submajor is permitted upon declaration. The submajor will be notated on the student's official transcript. Students with an Asian Studies major may not also declare an Asian Studies minor.

Advising

Appointments are scheduled on the department's online advising calendar. Please go to www.lsa.umich.edu/asian for more information.

Students who have a formal or informal interest in Asian Studies are encouraged to consult a department advisor.

Grade Policies

No course will count toward the major unless the student receives a grade of C- or better.

Prerequisites

None

Requirements

Minimum Credits: 34

Asian Studies Language Requirement

All majors must have fourth-term proficiency in an Asian language taught within the Department of Asian Languages and Cultures. Majors are strongly encouraged to continue their language training beyond the second-year requirement. The Asian language used to meet this requirement will define the student's regional specialization.

These credits do not count toward the credits needed for the major.

Required Courses

All courses used toward the major, except those courses used to acquire a second Asian language, must be at the 200-level or above.

Students must take 1) ASIAN 235: Introduction to Asian Studies; 2) ASIAN 381: Junior/Senior Seminar for Majors; and 3) eight or more elective courses. At least four 300-level or above elective ASIAN or ASIANLAN courses (excluding ASIAN 381), one of which must be an ASIAN course at the 400-level or above.

Sub-major requirement

In consultation with a department advisor majors must take at least 4 300-level or above elective ASIAN or ASIANLAN courses (excluding ASIAN 381) focused on or related to the sub-major: Chinese Studies, Japanese Studies, Korean Studies, South Asian Studies, and Southeast Asian Studies. The Asian language used to satisfy the language requirement will determine the individual student's sub-major.

Optional cognate

Students have the option of electing one course (up to four credits) from outside of the Department of Asian Languages and Cultures.

The plan for the major is designed in consultation with and approved by a department advisor.

Other Department Policies

Students interested in focusing their studies on multiple cultures and languages of Asia are permitted to declare both the Asian Studies major and the Asian Languages and Cultures minor. The focus of each declared program must be different and the coursework may not overlap.

Residency

At least 5 courses must be elected on the Ann Arbor campus or at off-campus sites directed by Ann Arbor faculty. This includes STDABRD, Camp Davis, Biological Station, Michigan-

in-Washington.

Distribution Policy

No course used to fulfill a major requirement may be used toward the **LSA Distribution Requirement**. In addition, courses in the ASIAN and ASIANLAN subject areas may not be used toward the Distribution Requirement.

Honors

Candidates for Honors must complete all regular requirements for the major, and maintain a cumulative grade point average of at least 3.4 and at least 3.5 in courses elected as part of the major. They must also demonstrate the ability to do original work by writing an Honors thesis and must elect ASIAN 495: Writing an Honors Thesis. Recommendations for the designation of "Honors," "High Honors," and "Highest Honors" in Asian Studies are made on the basis of the student's performance in departmental Honors courses and the quality of the student's Honors thesis.

Asian Studies Minor

The academic minor in Asian Studies allows majors in other departments to undertake a guided and coherent program in Asian Studies when extensive coursework in an Asian language is impractical for them. In contrast to the Asian Studies concentration, as well as the minor in Asian Languages and Cultures, this academic minor does not contain a language component, it is designed to give students the opportunity to plan a structured and articulated series of courses that will result in an intellectual engagement with the culture of at least one Asian region.

Effective Fall 2017

Exclusions:

An academic minor in Asian Studies is not open to students with a concentration in Asian Studies or other academic minor in the Department of Asian Languages and Cultures.

Advising

Appointments are scheduled on the department's online advising calendar. Please go to www.lsa.umich.edu/asian for more information.

Students who have a formal or informal interest in Asian Studies are encouraged to consult a department advisor.

Grade Policies

No course will count toward the minor unless the student receives a grade of C- or better.

Prerequisites

None.

Requirements

Minimum Credits: 15

At least 15 non-language credits chosen in consultation with and approved by a department advisor.

At least 3 courses in Asian Studies offered through ALC within one of the regional tracks: Chinese Studies, Japanese Studies, Korean Studies, South Asian Studies, or Southeast Asian Studies. Two courses must be elected at the 300-level or above.

An academic minor plan may also be organized around disciplines or lines of inquiry not necessarily defined by a region in consultation with and approved by a department advisor.

Residency

Twelve of the credits counted toward the academic minor must be elected at the University of Michigan or at an overseas program associated with U-M.

Asian & Pacific Islander American Studies Minor

The Asian/Pacific Islander American Studies (A/PIA) program within American Culture offers interdisciplinary graduate and undergraduate courses focusing on Asian American and Pacific Islander communities and experiences.

A/PIA is a focal point for university research and teaching on issues concerning Asian American and Pacific Islanders, providing resources for their understanding. The unique historical and political circumstances surrounding the incorporation of Asian immigrants and Pacific Islanders into American society, and the broad range of stratification spanning such communities, underscores the richness and theoretical importance of studying A/PIA communities alongside – and often in contrast to – that of other groups in the United States.

Students may take a full range of courses examining the historical, political, economic, literary, artistic, cultural, and psychological forces, which have shaped and continue to shape the lives and communities of Asian Americans and Pacific Islanders.

The minor in Asian/Pacific Islander American Studies is intended for students who wish to develop a coherent understanding of the contributions of the Asian/Pacific Islander American presence in American life, history, and thought.

Students interested in pursuing a course of study in A/PIA should contact Scott Kurashige, Director of Asian/Pacific Islander American Studies.

Effective Fall 2012

Exclusions:

A minor in Asian/Pacific Islander American Studies is not open to students with any minor in the Department of American Culture.

Advising

Appointments with the respective advisor can be scheduled online at: <http://lsa.umich.edu/ac/undergraduates/advising.html>

Prerequisites

None.

Requirements

Minimum Credits: 15

1. **Core Course: ASIANPAM 214 / AMCULT 214:** Introduction to Asian/Pacific American Studies
2. **Electives:** Four courses (minimum of 12 credits). These courses may be taken from within, or from across, any of the three areas of specialty listed below that are regularly offered in A/PIA, as well as other 200- and 300-level courses occasionally offered in A/PIA. One of these four courses may be a 100-level course (e.g., Freshman Seminar on an A/PIA topic), while 200 and 300 level courses with A/PIA content offered in other departments can count if approved by the A/PIA Director:
 - a. *Historical Experience:*
 - ASIANPAM 314 / AMCULT 314 / HISTORY 378: History of Asian Americans in the U.S.
 - ASIANPAM 317 / AMCULT 317: History of the Pacific Islands.
 - appropriate sections of AMCULT 310: Topics in Ethnic Studies or AMCULT 496: Social Science Approaches to American Culture, chosen in consultation with, and approved by, the advisor.
 - b. *Cultural Expression:*
 - ASIANPAM 324 / AMCULT 324 / ENGLISH 381: Asian American Literature.
 - ASIANPAM 325 / AMCULT 325 / ENGLISH 388: Pacific Literacy and Cultural Studies.
 - appropriate sections of AMCULT 311: Topics in Ethnic Studies or AMCULT 498: Capstone Seminar in American Culture, chosen in consultation with, and approved by, the advisor.
 - c. *Contemporary Communities:*
 - ASIANPAM 305 / AMCULT 305: Asian Pacific American Community Service and Learning
 - ASIANPAM 346 / AMCULT 346: Asian American Communities and Social Issues
 - ASIANPAM 347 / AMCULT 347: Pacific Islander American Communities
 - appropriate sections of AMCULT 301: Topics in American Culture or 310: Topics in Ethnic Studies, chosen in consultation with, and approved by, the advisor.

Astronomy and Astrophysics Major

Will the universe expand forever? Is there life on other planets? How do stars form, live, and die? These are some of the exciting questions confronting astronomers in the twenty-first century. Because of the awe-inspiring immensity of the subject, the study of astronomy has a strong fascination—poetic, philosophical, speculative—for many individuals. In the modern observatory, however, the urge to understand and discover what is happening in the universe finds expression in the scientific pursuit of the subject. To explore the dynamics of colliding galaxies and of interstellar gas in galaxies, to find the compositions of chemically peculiar stars and supernovae remnants, to explain radio-galaxy variations and atomic emissions of

quasars—some of the active areas in the Michigan Department of Astronomy—requires patience and dedication, together with the curiosity and talent characteristic of all scientists.

Effective Winter 2023

Exclusions:

Not open to those with a major in Interdisciplinary Astronomy.

Advising

Advising appointments are scheduled **online**.

Prerequisites

1. Mathematics through MATH 216
2. PHYSICS 160/161 [or PHYSICS 140/141 and one of PHYSICS 104, SI 106, EECS 183, ENGR 101, or an equivalent computing course approved by the Astronomy department advisor]
3. PHYSICS 240/241 or 260/261
4. PHYSICS 340 or 360

Requirements

Minimum Credits: 34

1. ***Astronomy Core:***
ASTRO 201, 361, 399, 402, 404, and 429
2. ***Physics Core:***
PHYSICS 390, 391, 401, 405
3. ***Astronomy Electives:***
Two of: ASTRO 401, 403, 405, 406, 461, or by permission of instructor, a 500-level ASTRO course.

Students are urged to complete the requirements in physics and mathematics as soon as possible. Students planning graduate work might benefit from knowledge of Spanish, but this is not essential.

Distribution Policy

No course used to fulfill a major requirement may be used toward the **LSA Distribution Requirement**. In addition, courses in the ASTRO subject area may not be used toward the Distribution Requirement.

Honors

Students who are interested in scholarly research in astronomy and have a cumulative grade point average of 3.5 are encouraged to consider the Honors major. Students with a lower GPA may be admitted to Honors at the discretion of the department advisor. The Honors major requires writing a senior Honors thesis based on research done in collaboration with a faculty member. Interested students should consult with the department advisor by the beginning of their junior year.

Astronomy and Astrophysics (Major) (Winter 2017 - Fall 2022)

Effective Winter 2017

Exclusions:

Not open to those with a major in Interdisciplinary Astronomy.

Advising

Advising appointments are scheduled **online**.

Prerequisites

1. Mathematics through MATH 216
2. PHYSICS 160/161 [or PHYSICS 140/141 and one of EECS 183, ENGR 101, or an equivalent computing course approved by the Astronomy department advisor]
3. PHYSICS 240/241 or 260/261
4. PHYSICS 340 or 360

Requirements**Minimum Credits:** 36

1. ***Astronomy Core:***
ASTRO 201, 361, 399, 402, 404, and 429
2. ***Physics Core:***
PHYSICS 390, 391, 401, 405
3. ***Astronomy Electives:***
Two of: ASTRO 401, 403, 405, 406, 461, or by permission of instructor, a 500-level ASTRO course.

Students are urged to complete the requirements in physics and mathematics as soon as possible. Students planning graduate work might benefit from knowledge of Spanish, but this is not essential.

Distribution Policy

No course used to fulfill a major requirement may be used toward the **LSA Distribution Requirement**. In addition, courses in the ASTRO subject area may not be used toward the Distribution Requirement.

Honors

Students who are interested in scholarly research in astronomy and have a cumulative grade point average of 3.5 are encouraged to consider the Honors major. Students with a lower GPA may be admitted to Honors at the discretion of the department advisor. The Honors major requires writing a senior Honors thesis based on research done in collaboration with a faculty member. Interested students should consult with the department advisor by the beginning of their junior year.

Astronomy and Astrophysics Minor

The minor in Astronomy and Astrophysics is offered to students with a strong background in physics and math, who wish to develop a deep expertise in astronomy.

Students with a science, math, or engineering major can often incorporate the added dimension of a minor in Astronomy and Astrophysics with only a few additional courses if

their degrees already require a significant background in physics

Effective Fall 2016

Exclusions:

The minors in Astronomy are not open to students with a major in Department of Astronomy.

Advising

Advising appointments are scheduled **online**.

Prerequisites

1. Mathematics through differential equations: MATH 216 or its equivalent
2. PHYSICS 140/141, 240/241, and 340.

Requirements

Minimum Credits: 15

1. **Introductory Course:** ASTRO 201
2. **Astronomy Core Courses:** at least two courses chosen from among: ASTRO 361, 402, 404.
3. **Astronomy Electives:** Remaining credits can be selected from ASTRO 399 and 400-level courses not already taken as Astronomy core.

Biochemistry Minor

The Biochemistry minor provides a broad and general exposure to biochemistry from a chemical sciences perspective.

The curricula in Chemistry serve those preparing for careers in chemistry, biochemistry, medicine, chemical engineering, pharmacy, and allied fields as well as those seeking a general knowledge of chemistry as part of a liberal arts education. Beyond the first-year courses, there is an emphasis on development of technical knowledge and laboratory experience needed in chemistry and related scientific fields. The undergraduate majors prepare students for work in research and testing laboratories, as well as for business positions in which a chemistry background is desirable. Graduate work is necessary for those planning to do college and university teaching or industrial research.

Effective Winter 2023

Exclusions:

The Biochemistry Academic Minor is not open to students majoring in Biochemistry; Biomolecular Science; Chemical Science; Interdisciplinary Chemical Sciences; Chemistry; Molecular, Cellular, and Developmental Biology (formerly known as Cell and Molecular Biology, or CMB); Biology; General Biology; Biology, Health and Society (BHS); Neuroscience; Ecology, Evolution, and Biodiversity; Plant Biology; and Microbiology.

Students electing a minor within the Department of Chemistry may only elect ONE of the five minors offered by the Department.

Advising

Students wishing to pursue a minor offered by the Chemistry Department must develop a specific plan for its completion in consultation with the Department's designated advisor. **Chemistry, Chemical Physics, Polymer Chemistry, and Chemical Measurement Science** minors are arranged in consultation with any Chemistry department advisor, while **Biochemistry** minors are arranged in consultation with any Biochemistry advisor. Information about scheduling advising appointments is available from the Department's **website**.

Grade Policies

The department strongly recommends that a student earn a grade of at least C– in all CHEM courses and mathematics, physics, and biology courses that are prerequisite for subsequent elections. A major program grade point average of at least 2.0 is required; this includes chemistry courses, mathematics, physics, and biology prerequisites, and advanced electives that are part of a major plan. Prerequisites must be taken for a grade. Students must request any change in a chemistry course grade within the first fifteen University Business days of the first full term following the term in which the disputed grade was issued.

Prerequisites

- MATH 115 (or 120) or equivalent
- PHYSICS 125, 139, 140, 150, 160, or equivalent
- BIOLOGY 172, 174, 192 or 195

Requirements

Minimum Credits: 18

1. *Core:* CHEM 210/211, CHEM 215, CHEM 260 (or CHEM 261 and CHE 330) or CHEM 370, CHEM 351.
2. *Electives:* CHEM 451, 452, CHEM 241/242 or CHEM 245/246/247, BIOLOGY 305.

*Students who have already taken any of the one-term biochemistry courses [MCDB (BIOLOGY) 310 or BIOLCHEM 415] cannot get credit for CHEM 351. The minor will accept these other one-term courses provided the student takes CHEM 451 or 452 as one of their electives.

Teaching Certificate

Those seeking a B.S. or B.S. Chem. degree with a teaching certificate in Chemistry must fulfill departmental as well as School of Education requirements. Students who plan to earn a teaching certificate with a teaching major or minor in Chemistry should contact the School of Education Teacher Education Office.

Biochemistry (Minor) (Winter 2020 - Fall 2022)

Effective Winter 2020

Exclusions:

The Biochemistry Academic Minor is not open to students majoring in Biochemistry; Biomolecular Science; Chemical Science; Interdisciplinary Chemical Sciences; Chemistry; Molecular, Cellular, and Developmental Biology (formerly known as Cell and

Molecular Biology, or CMB); Biology; General Biology; Biology, Health and Society (BHS); Neuroscience; Ecology, Evolution, and Biodiversity; Plant Biology; and Microbiology.

Students electing a minor within the Department of Chemistry may only elect ONE of the five minors offered by the Department.

Advising

Students wishing to pursue a minor offered by the Chemistry Department must develop a specific plan for its completion in consultation with the Department's designated advisor. **Chemistry, Chemical Physics, Polymer Chemistry, and Chemical Measurement Science** minors are arranged in consultation with any Chemistry department advisor, while **Biochemistry** minors are arranged in consultation with any Biochemistry advisor. Information about scheduling advising appointments is available from the Department's **website**.

Grade Policies

The department strongly recommends that a student earn a grade of at least C– in all CHEM courses and mathematics, physics, and biology courses that are prerequisite for subsequent elections. A major program grade point average of at least 2.0 is required; this includes chemistry courses, mathematics, physics, and biology prerequisites, and advanced electives that are part of a major plan. Prerequisites must be taken for a grade. Students must request any change in a chemistry course grade within the first fifteen University Business days of the first full term following the term in which the disputed grade was issued.

Prerequisites

- MATH 115 (or 120) or equivalent
- PHYSICS 135 (or 125), 139, 140, 160, or equivalent
- BIOLOGY 172, 174, 192 or 195

Requirements

Minimum Credits: 18

1. *Core:* CHEM 210/211, CHEM 215, CHEM 260 (or CHEM 261 and CHE 330) or CHEM 370, CHEM 351.
2. *Electives:* CHEM 451, 452, CHEM 241/242 or CHEM 245/246/247, BIOLOGY 305.

*Students who have already taken any of the one-term biochemistry courses [MCDB (BIOLOGY) 310 or BIOLCHEM 415] cannot get credit for CHEM 351. The minor will accept these other one-term courses provided the student takes CHEM 451 or 452 as one of their electives.

Teaching Certificate

Those seeking a B.S. or B.S. Chem. degree with a teaching certificate in Chemistry must fulfill departmental as well as School of Education requirements. Students who plan to earn a teaching certificate with a teaching major or minor in Chemistry should contact the School of Education Teacher Education Office.

Biochemistry [B.S.] (Major)

The biochemistry major is intended for students interested in the chemical basis of biological phenomena. This degree program is ideal for students who are interested in learning about life from a chemical perspective. The major is intellectually demanding and is intended to prepare students for further education (graduate school or medicine). Students will gain a solid foundation in chemistry through traditional sub-discipline courses, but will also take a number of chemistry courses that are focused on the role of chemistry in biological systems. Students will also have the option to take elective courses in molecular biology, and also may pursue undergraduate research in lieu of one of the traditional laboratory courses. A B.S. degree in biochemistry is also a useful means of preparing for jobs in academic medical centers, the pharmaceutical industry, and in biotechnology companies. Students that pursue this degree will be well equipped for graduate studies in biochemistry, chemical biology, and many other fields of inquiry in the life sciences. The degree will also provide excellent preparation for students intending to pursue professional careers in the Biotechnology Industry as well as the Health Sciences. Because the major is highly structured, it is essential that prospective majors follow the guidelines set forth below.

The curricula in Chemistry serve those preparing for careers in chemistry, biochemistry, medicine, chemical engineering, pharmacy, and allied fields as well as those seeking a general knowledge of chemistry as part of a liberal arts education. Beyond the first-year courses, there is an emphasis on development of technical knowledge and laboratory experience needed in chemistry and related scientific fields. The undergraduate majors prepare students for work in research and testing laboratories, as well as for business positions in which a chemistry background is desirable. Graduate work is necessary for those planning to do college and university teaching or industrial research.

BS Major in Chemistry: Chemistry is often referred to as the “central science” because atoms and molecules are the foundation of all phenomena – from climate change to COVID vaccines to cosmic events. Chemists are working in diverse fields, helping achieve environmental justice, health equity, and address other big challenges to society. Chemists in our department are synthesizing advanced materials for renewable energy storage, developing new methods to access medicines, and documenting changes in the Arctic atmosphere, among many other impactful projects. Chemists use sophisticated instrumentation to analyze and understand the living world as well as how complex chemical processes proceed. The Chemistry major offers flexibility in course selection that will prepare you for diverse careers, including: entry to top graduate programs in chemistry or related fields, employment in the chemical industry or government labs, and post graduate programs such as medical school or dental school that are directed towards health-science related careers.

It is strongly recommended that students who are thinking of degrees in chemistry should arrange an appointment with a Chemistry advisor via the online advising system as soon as possible, preferably before the end of their first year but certainly before the end of the sophomore year. The online appointment scheduling system can be found here: <http://www.umich.edu/~michchem/undergrad/index.html>.

Effective Winter 2023

Exclusions:

Students who elect a major in Biochemistry may not elect the following majors: Biology; General

Biology; Molecular, Cellular, and Developmental Biology (formerly known as Cell and Molecular Biology, or CMB); Cellular and Molecular Biomedical Science Major (formerly known as Cellular and Molecular Biology and Biomedical Engineering, or CMB:BME); Ecology and Evolutionary Biology; Microbiology; or Neuroscience. They may also not elect a minor in Biology, or any of the Chemistry minors.

Advising

Students develop a plan for the major in consultation with a program advisor. Those interested in a B.S. degree with a major in Chemical Science (120 credits) or the specialized program leading to the *Bachelor of Science in Chemistry* (124 credits) are urged to consult a program advisor during the freshman and/or sophomore years. Prospective majors are advised that further study in chemistry requires adequate performance in early chemistry courses (preferably B- or better) as well as in the mathematics and physics prerequisites. Students interested in an Honors degree should see the Chemistry Honors advisor. Appointments are scheduled online at <http://lsa.umich.edu/chem/undergraduates/advising.html>. Students interested in the joint program with the College of Engineering should **make an appointment with the Newnan Engineering/LSA Joint Program Advisor** [Academic Advising Center, 1255 Angell Hall, 734.764.0332] and then make an appointment to see a Chemistry Department advisor online.

Grade Policies

The department strongly recommends that a student earn a grade of at least C- in all CHEM courses and mathematics, physics, and biology courses which are prerequisites for subsequent elections. A major program grade point average of at least 2.0 is required; this includes chemistry courses, mathematics and physics prerequisites and advanced electives which are part of a plan for the major. Prerequisites must be taken for a grade. Students must request any change in a grade before the end of the next regular academic term.

Prerequisites

- BIOLOGY 171 and either 172 or 174; or BIOLOGY 192; or BIOLOGY 195
- CHEM 210/211 and CHEM 215
- MATH 115 (or 120) and MATH 116 (or 121)
- MATH 215 or CHEM 262
- PHYSICS [125/127 or 135/136 or 139 or 140/141 or 150/151 or 160/161] and PHYSICS [126/128 or 235/236 or 239 or 240/241 or 250/251 or 260/261].

Requirements

Minimum Credits: 37

Must include:

1. **Core:** BIOLOGY 305; CHEM 260 or CHEM 230 & 261, [302 or 303 or 241 or 245], [216 or 242 (or 246 and 247)] 351*, 352 or 353, 451, 452, 453.
*Students are strongly encouraged to take CHEM 351 but could substitute this course requirement with MCDB 310 or BIOLCHEM 415.
2. **Electives:** A total of at least six credits chosen from:
 - CHEM / BIOPHYS / PHYSICS 417: Dynamic Biophysics (3)
 - CHEM 419: Intermediate Physical Organic Chemistry(3)
 - CHEM 420: Advanced Organic Chemistry (3)
 - CHEM 421: Organic Chemistry of Drug Design (3)
 - CHEM / BIOPHYS 440: Biophysics of Disease (3)

- CHEM 447: Physical Methods of Analysis (3)
- CHEM 455: Special Topics in Biochemistry (3)
- CHEM 461: Physical Chemistry I (3)
- CHEM 474: Environmental Chemistry (3)
- CHEM / BIOPHYS 521: Biophysical Chemistry II (3)
- BIOPHYS 417/CHEM 417/PHYSICS 417: Dynamical Processes in Biophysics (3)
- BIOPHYS 420: Structural Biology I (3) (*only if taken W17 or later*)
- BIOPHYS / PHYSICS 430: Medical Physics (3) (*only if taken WN20 or later*)
- BIOPHYS 435: Biophysical Modeling (3)
- BIOPHYS / CHEM 440: Biophysics of Disease (3)
- BIOPHYS / CHEM 520: Methods of Biophysical Chemistry (3)
- BIOPHYS / CHEM 521: Biophysical Chemistry II (3)
- MCDB 408: Genomic Biology (3)
- MCDB 411: Protein Biochemistry (3)
- MCDB 417: Chromosome Structure and Function (3)
- MCDB 420: Structural Biology: The Architecture of Life (3)
- MCDB 422: Brain Development, Plasticity, and Circuits (3) (*only if taken W17 or later*)
- MCDB 427: Molecular Biology (3)
- MCDB 428: Cell Biology (3)
- MCDB 430: Molecular Biology of Plants (3)
- MCDB 431: Plant Biochemistry (3)
- MCDB 434: Protein Misfolding Diseases (3)
- MCDB 435: Intracellular Trafficking (3)
- MCDB 436: Introductory Immunology (3)
- MCDB 440: Cell Cycle Control and Cancer (3)
- MCDB 441: Cell Biology of Disease (3)
- MCDB 448: Telomerase Function in Stem Cells and Cancers (3)
- MCDB 472: Building a Synthetic Cell (3)
- MICRBIOL 405: Medical Microbiology and Infectious Diseases (3)
- PHRMACOL 310: Pharmacology and Therapeutics (3)
- PHRMACOL 425: Development of New Medications: Pharmacology in Action (3)
- PHYSIOL 502: Human Physiology (3)

3. **An advanced laboratory or undergraduate research course.** Recommended options for the advanced laboratory course are BIOPHYS 450, MCDB 429, CHEM 482 or 483; or four credits of undergraduate research elected as any combination of either CHEM 398 or BIOLCHEM 398, by permission of the department advisor. Students electing the undergraduate research option must execute an extended research project under the supervision of a faculty member who agrees to oversee the project.

Distribution Policy

No course used to fulfill a major requirement may be used toward the **LSA Distribution Requirement**. In addition, courses in the CHEM subject area may not be used toward the Distribution Requirement.

Honors

Qualified students may elect an Honors major. The Honors major requires a thesis which describes

and analyzes independent experimental work. The research topic and advisor must be approved by the Honors advisor in Biochemistry. Students in this program are expected to maintain an overall grade point average above 3.4 and at least a 3.4 in the field of the major, including prerequisite courses. CHEM 398 (4 credits) and the thesis course, CHEM 498, replaces the requirement for an upper-level laboratory course outlined above.

Teaching Certificate

Those seeking a B.S. or B.S. Chem. Degree with a teaching certificate in Chemistry must fulfill departmental as well as School of Education requirements. Students who plan to earn a teaching certificate with a teaching major or minor in Chemistry should contact the School of Education Teacher Education Office.

Biochemistry [B.S.] (Major) (Winter 2020 - Fall 2022)

Effective Winter 2020

Exclusions:

Students who elect a major in Biochemistry may not elect the following majors: Biology; General Biology; Molecular, Cellular, and Developmental Biology (formerly known as Cell and Molecular Biology, or CMB); Cellular and Molecular Biomedical Science Major (formerly known as Cellular and Molecular Biology and Biomedical Engineering, or CMB:BME); Ecology and Evolutionary Biology; Microbiology; or Neuroscience. They may also not elect a minor in Biology, or any of the Chemistry minors.

Advising

Students develop a plan for the major in consultation with a program advisor. Those interested in a B.S. degree with a major in Chemical Science (120 credits) or the specialized program leading to the *Bachelor of Science in Chemistry* (124 credits) are urged to consult a program advisor during the freshman and/or sophomore years. Prospective majors are advised that further study in chemistry requires adequate performance in early chemistry courses (preferably B- or better) as well as in the mathematics and physics prerequisites. Students interested in an Honors degree should see the Chemistry Honors advisor. Appointments are scheduled online at <http://lsa.umich.edu/chem/undergraduates/advising.html>. Students interested in the joint program with the College of Engineering should make an appointment with **John Stratman** [Academic Advising Center, 1255 Angell Hall, 734.764.0332] and then make an appointment to see a chemistry department advisor online.

Grade Policies

The department strongly recommends that a student earn a grade of at least C- in all CHEM courses and mathematics, physics, and biology courses which are prerequisites for subsequent elections. A major program grade point average of at least 2.0 is required; this includes chemistry courses, mathematics and physics prerequisites and advanced electives which are part of a plan for the major. Prerequisites must be taken for a grade. Students must request any change in a grade before the end of the next regular academic term.

Prerequisites

- BIOLOGY 171 and either 172 or 174; or BIOLOGY 192; or BIOLOGY 195
- CHEM 210/211 and CHEM 215

- MATH 115 (or 120) and MATH 116 (or 121)
- MATH 215 or CHEM 262
- PHYSICS [125/127 or 135/136 or 139 or 140/141 or 160/161] and PHYSICS [126/128 or 235/236 or 239 or 240/241 or 260/261].

Requirements

Minimum Credits: 37

Must include:

1. **Core:** BIOLOGY 305; CHEM 260, [302 or 303 or 241 or 245], [216 or 242 (or 246 and 247)] 351*, 352, 451, 452, 453.

*Students are strongly encouraged to take CHEM 351 but could substitute this course requirement with MCDB 310 or BIOLCHEM 415.

2. **Electives:** A total of at least six credits chosen from:
 - CHEM / BIOPHYS / PHYSICS 417: Dynamic Biophysics (3)
 - CHEM 420: Advanced Organic Chemistry (3)
 - CHEM / BIOPHYS 440: Biophysics of Disease (3)
 - CHEM 447: Physical Methods of Analysis (3)
 - CHEM 454: Biophysical Chem II: Macromolecular Structure, Dynamics (3)
 - CHEM 455: Special Topics in Biochemistry (3)
 - CHEM 461: Physical Chemistry I (3)
 - CHEM / AOSS 467 / EARTH 465 / ENSCEN / ENVIRON 467: Biogeochemical Cycles (3)
 - CHEM / BIOPHYS 521: Biophysical Chemistry II (3)
 - CHEM / BIOLCHEM / MEDCHEM 528: Enzyme Mechanisms, Ligand Binding (2)
 - CHEM / BIOLCHEM 673: Enzyme Kinetics (2)
 - AOSS / CHEM 467 / EARTH 465 / ENSCEN / ENVIRON 467: Biogeochemical Cycles (3)
 - BIOLCHEM / CHEM / MEDCHEM 528: Enzyme Mechanisms, Ligand Binding (2)
 - BIOLCHEM / CHEMBIO 530: Structural Biology (3)
 - BIOLCHEM 541: Molecular Genetics (3)
 - BIOLCHEM 550: Macromolecular Structure and Function (3)
 - BIOLCHEM / PHYSIOL / PHRMACOL 576: Signal transduction (1)
 - BIOLCHEM 640: Post-transcriptional Gene Regulation (2)
 - BIOLCHEM 650: Mechanisms of Eukaryotic Gene Expression (3)
 - BIOLCHEM / CHEM 673: Enzyme Kinetics (2)
 - BIOLCHEM / CDB / MICRBIOL 675: Advanced Topics in Protein Trafficking and Localization (2)
 - BIOPHYS 417/CHEM 417/PHYSICS 417: Dynamical Processes in Biophysics (3)
 - BIOPHYS 420: Structural Biology I (3) (*only if taken W17 or later*)
 - BIOPHYS / PHYSICS 430: Medical Physics (3) (*only if taken WN20 or later*)
 - BIOPHYS 435: Biophysical Modeling (3)
 - BIOPHYS / CHEM 440: Biophysics of Disease (3)
 - BIOPHYS / CHEM 521: Biophysical Chemistry II (3)
 - CDB / BIOLCHEM / MICRBIOL 675: Advanced Topics in Protein Trafficking and Localization (2)
 - CHEMBIO / BIOLCHEM 530: Structural Biology (3)
 - EARTH 465 / CHEM / AOSS / ENSCEN / ENVIRON 467: Biogeochemical Cycles (3)
 - ENSCEN / CHEM / AOSS 367 / EARTH / ENVIRON 467: Biogeochemical Cycles (3)

- ENVIRON / CHEM / AOSS 467 / EARTH 465 / ENSCEN 467: Biogeochemical Cycles (3)
 - MCDB 405: Molecular Basis of Development (3)
 - MCDB 411: Protein Biochemistry (3)
 - MCDB 417: Chromosome Structure and Function (3)
 - MCDB 418: Endocrinology (3)
 - MCDB 422: Brain Development, Plasticity, and Circuits (3) (*only if taken W17 or later*)
 - MCDB 427: Molecular Biology (3)
 - MCDB 428: Cell Biology (3)
 - MCDB 431: Plant Biochemistry (3)
 - MCDB 435: Intracellular Trafficking (3)
 - MCDB 436: Introductory Immunology (3)
 - MCDB 437: Microbial Communities & Development (3)
 - MCDB 441: Cell Biology of Disease (3)
 - MCDB 471: Advanced Methods in Biochemistry (3)
 - MEDCHEM / BIOLCHEM / CHEM 528: Enzyme Mechanisms, Ligand Binding (2)
 - MICRBIOL / BIOLCHEM / CDB 675: Advanced Topics in Protein Trafficking and Localization (2)
 - PHRMACOL 576/BIOLCHEM 576/PHYSIOL 576: Signal transduction (1)
 - PHYSICS / CHEM / BIOPHYS 417: Dynamic Biophysics (3)
 - PHYSICS / BIOPHYS 430: Medical Physics (3) (*only if taken WN20 or later*)
 - PHYSIOL / BIOLCHEM / PHRMACOL 576: Signal transduction (1)
3. **An advanced laboratory or undergraduate research course.** Recommended options for the advanced laboratory course are MCDB 429, CHEM 482 or 483; or four credits of undergraduate research elected as any combination of either CHEM 398 or BIOLCHEM 398, by permission of the department advisor. Students electing the undergraduate research option must execute an extended research project under the supervision of a faculty member who agrees to oversee the project.

Distribution Policy

No course used to fulfill a major requirement may be used toward the **LSA Distribution Requirement**. In addition, courses in the CHEM subject area may not be used toward the Distribution Requirement.

Honors

Qualified students may elect an Honors major. The Honors major requires a thesis which describes and analyzes independent experimental work. The research topic and advisor must be approved by the Honors advisor in Biochemistry. Students in this program are expected to maintain an overall grade point average above 3.4 and at least a 3.4 in the field of the major, including prerequisite courses. CHEM 398 (4 credits) and the thesis course, CHEM 498, replaces the requirement for an upper-level laboratory course outlined above.

Teaching Certificate

Those seeking a B.S. or B.S. Chem. Degree with a teaching certificate in Chemistry must fulfill departmental as well as School of Education requirements. Students who plan to earn a teaching certificate with a teaching major or minor in Chemistry should contact the School of Education Teacher Education Office.

Biological Anthropology Minor

The minor in Biological Anthropology allows students with interests in evolutionary biology or medicine to add an anthropological perspective to their studies. Many students are interested in specific topics covered by Biological Anthropology, such as Human Evolution, the Evolution of Human Behavior, Primatology, Nutrition and Adaptation, Human Genetics, *etc.* Thus, a minor in biological anthropology offers several "tracks" to students depending on their interests.

Effective Fall 2014

Exclusions:

An academic minor in Biological Anthropology is not open to students with any major or any other minor in the department of Anthropology.

Advising

The department offers undergraduate majors for a bachelor's degree in Anthropology and Evolutionary Anthropology: minors are offered in Medical Anthropology, Biological Anthropology, and Anthropology (with tracks in Sociocultural Anthropology, Linguistic Anthropology, and Archaeological Anthropology).

All anthropology faculty members are available for informal discussion with students during scheduled office hours (check the Department office for times).

Department advisors are available to explain program objectives and requirements and to help with the planning of your program.

Students wishing to pursue a minor in the Department of Anthropology should contact the undergraduate advisor with any questions.

Appointments are scheduled in the Department office or online at: www.lsa.umich.edu/anthro/undergraduates/advising

Prerequisites

None.

Requirements

Minimum Credits: 16

At least five courses (no fewer than 16 credits), to be chosen from the following categories as stated:

1. ANTHR BIO 201.
2. At least four upper-level courses in ANTHR BIO, chosen in consultation with an advisor, one of which must be at the 400-level or above.

Biology Major

This major program develops an appreciation of the levels of organization of life, its diversity, and the processes by which life has achieved its present forms. The program is recommended for those who wish to study biology as part of a liberal education, to prepare for a teaching career in secondary schools, or to prepare for graduate study in biology or the health professions.

Effective Winter 2023

Exclusions:

Students who elect a major in Biology may not elect the following majors: Biology, Health, and Society (formerly known as General Biology); Molecular, Cellular, and Developmental Biology (MCDB - formerly known as Cellular & Molecular Biology or CMB); Cellular and Molecular Biomedical Science (formerly known as CMB:BME); Ecology and Evolutionary Biology; Ecology, Evolution, and Biodiversity; Microbiology; Plant Biology; Biochemistry; Biomolecular Science; or Neuroscience. They also may not elect a minor in Biology; Ecology and Evolutionary Biology; Plant Biology; Chemistry; or Biochemistry.

Advising

Students are advised by a combination of Undergraduate Biology Office staff and faculty department advisors. Advising topics include investigating majors, declaring a major, course planning, research and Honors, major releases, graduate school and career advice. Students interested in any major in the biological sciences are encouraged to meet with an advisor to discuss their academic plans as soon as possible! Students need not have completed all of the major prerequisites to declare, but should have completed the introductory biology sequence with a 2.0 GPA or better and be in good academic standing. To make an appointment, go to the Program in Biology website at www.lsa.umich.edu/biology.

Grade Policies

Total Credits and GPA Requirement for Biology:

Minimum 30 cr. in the Major.

Minimum 2.0 GPA in the Major.

GPA is calculated from all mandatory prerequisites, all courses used for major requirements (including cognates) and all courses in BIOLOGY, EEB, and MCDB.

The introductory biology sequence must be taken for a grade. Prerequisites other than introductory biology may be taken pass/fail; however, it is not recommended, especially for chemistry.

Remember that at least a C- must be earned to pass a course taken pass/fail.

Courses used for the major may not be taken pass/fail.

Prerequisites

Introductory Biology Sequence:

Choose A, B, or C:

A. BIOLOGY 171, BIOLOGY 172 or 174, & BIOLOGY 173; or

B. BIOLOGY 195 (AP/IB) & BIOLOGY 173; or

C. BIOLOGY 191 (transfer credit), BIOLOGY 192, & BIOLOGY 173

Chemistry Sequence:

- CHEM 210 & 211; and,
- CHEM 215 & 216

Quantitative Analysis Sequence:

Choose four courses from the following options: [Note: Any course used to fulfill this requirement cannot also be used as a major elective; i.e., a course cannot "double-count."]

- Calculus 1: MATH 115, 120 (AP), 175, 185, or 295
- Calculus 2: MATH 116, 121 (AP), 156, 176, 186, or 296
- Physics I: PHYSICS 125, 135, 139 (AP), 140, 150, or 160
- Physics II: PHYSICS 126, 235, 239 (AP), 240, 250, or 260
- Computer Programming: EECS 183, 203, and/or 280
- Statistics: [STATS 180 (AP), 206, 250, or 280]; and/or STATS 400-level or above (min. 3 credits)
- BIOLOGY 131
- BIOLOGY 202
- BIOPHYS/PHYSICS 290; BIOPHYS 117
- EARTH 468

Requirements

Minimum Credits: 30

Biology Group Options

(Courses with an asterisk (*) may overlap with the lab requirement):

Choose from one Group I and one from Group II:

- **Group I** - MCDB Elective: Choose 1 from: BIOLOGY 205, BIOLOGY 207*, BIOLOGY 225, or BIOLOGY 230*; BIOLOGY 272; and,
- **Group II** - EEB Elective: Choose 1 from: BIOLOGY 207*, BIOLOGY 230*, BIOLOGY 252*, BIOLOGY 255*, BIOLOGY 256, BIOLOGY 281, BIOLOGY 282, BIOLOGY 288*, or EEB 381*

Required Courses

(Courses with an asterisk (*) may overlap with the lab requirement):

- Genetics: BIOLOGY 305
- Biochemistry: Choose from: MCDB 310, BIOLCHEM 415, or CHEM 351
- Evolution: EEB 390, 391, or 392*

Upper-Level Elective

(May overlap with the lab requirement):

Choose one course in EEB or MCDB at the 300- or 400- level

- Exclusions: EEB / MCDB 301, EEB/MCDB 302, EEB/MCDB 399, EEB/MCDB 499, MCDB 412, MCDB 461 (*only if elected WN21 or later*) and a non-specific (departmental) transfer courses are EXCLUDED.
- EEB / MCDB 300 or 400 (Independent Research), *elected for a minimum of 3 credits in a single term, may be used to fulfill this requirement. (3 credit max. applies; see CONSTRAINTS below.)*

Lab Courses for Biology

(This requirement may OVERLAP with other major reqs.):

3 courses with labs are required. Choose from BIOLOGY 202**, 207, 226, 230, 252, 255, 288; EEB 300*, 313, 320, 321, 330, 341, 348, 372, 373, 381, 391, 392, 400*, 405, 416, 429, 431, 433,

436, 441, 443, 447, 450, 451, 453, 455, 457, 468, 477, 482, 483, 486, 489, 493, 556; MCDB 300*, 306, 308, 400*, 416, 419, 423, 424, 429.

**EEB / MCDB 300 or 400 (Independent Research), elected for a minimum of 3 credits in a single term, may be used to fulfill a lab requirement. (3 credit max. applies; see CONSTRAINTS below.)*

***Only if BIOLOGY 202 is NOT used as a prerequisite for the major*

Additional Course(s):

Choose additional BIOLOGY, EEB, and MCDB courses at the 200-, 300-, or 400-level, to reach 30 major credit hours.

- Exclusions: BIOLOGY 241, BIOLOGY 299, EEB / MCDB 301, EEB / MCDB 302, MCDB 412, MCDB 600, and non-specific (departmental) transfer courses are EXCLUDED.
- A maximum of two approved cognate courses may be used as additional courses: ANTHRIBIO 365, 368, 450, ANTHRIBIO / ENVIRON 461; BIOLCHEM 650; BIOMEDE 231; CHEM 230 and above; CLIMATE / EARTH / SPACE 320; CMLXSYS 501, 530; EARTH 418, 436, 437; EARTH / ENVIRON 450, 453; ENVIRON 310, 317; EPID 543, 560; HUMGEN 541; MATH 200 and above*; MICRBIOL / IMMUN 440; MICRBIOL 405, 415, 430, 460; PHRMACOL 310, 425; PHYSICS / BIOPHYS 290* (only if not used as a prerequisite); PSYCH 337, 338; STATS 401*, 412*, 425*.

*Courses used as prerequisites may not double-count as additional courses.

Constraints

- Prerequisites, introductory science courses, and non-specific (departmental) transfer courses are EXCLUDED from the 30 cr. required for the major.
- A maximum of three credits of independent research (BIOLOGY 200, EEB/MCDB 300 or 400 or MCDB 360, 361, or 461 *if elected FA19 or later*) may be counted toward the major.

Distribution Policy

No course used to fulfill a major requirement may be used toward the **LSA Distribution Requirement**. In addition, courses in the BIOLOGY, EEB, MCDB, and MICRBIOL subject areas may not be used toward the Distribution Requirement.

Honors

The Program in Biology administers an Honors major to train students to conduct independent research in the biological sciences. Participating in the Honors major allows students to develop their research skills, deepen their understanding of the field, and form productive relationships with faculty and other students. The achievement is noted on the diploma and official transcript.

In addition to completing all the requirements for the major, an honors degree requires:

1. an overall **and** major GPA of at least 3.4,
2. participation in at least two terms of independent research, and
3. the completion of a significant piece of independent research that is
 - a. reported in an honors thesis and
 - b. presented in a public forum.

Note that undergraduate research students typically register for an independent research course (as

appropriate for their major) during each term of research. Formal course registration is encouraged, but not required. For more information, including the Honors Program application, consult the **Program in Biology Honors Information page**.

Biology (Major) (Winter 2019 - Fall 2022)

Effective Winter 2019

Exclusions:

Students who elect a major in Biology may not elect the following majors: Biology, Health, and Society (formerly known as General Biology); Molecular, Cellular, and Developmental Biology (MCDB - formerly known as Cellular & Molecular Biology or CMB); Cellular and Molecular Biomedical Science (formerly known as CMB:BME); Ecology and Evolutionary Biology; Ecology, Evolution, and Biodiversity; Microbiology; Plant Biology; Biochemistry; Biomolecular Science; or Neuroscience. They also may not elect a minor in Biology; Ecology and Evolutionary Biology; Plant Biology; Chemistry; or Biochemistry.

Advising

Students are advised by a combination of Undergraduate Biology Office staff and faculty department advisors. **Advising** topics include investigating majors, declaring a major, course planning, research and honors, major releases, graduate school and career advice. Students who are interested in the Program in Biology majors or minors should consult a general advisor during the freshman year, and are strongly encouraged to meet with a department advisor early in their academic career, but no later than the second term of their sophomore year. It is not necessary to complete every prerequisite before declaring a major.

To make an appointment, go to the Program in Biology website at www.lsa.umich.edu/biology.

Grade Policies

Total Credits and GPA Requirement for Biology:

Minimum 30 cr. in the Major.

Minimum 2.0 GPA in the Major.

GPA is calculated from all mandatory prerequisites, all courses used for major requirements (including cognates) and all courses in BIOLOGY, EEB, and MCDB.

The introductory biology sequence must be taken for a grade. Prerequisites other than introductory biology may be taken pass/fail; however, it is not recommended, especially for chemistry.

Remember that at least a C- must be earned to pass a course taken pass/fail.

Courses used for the major may not be taken pass/fail.

Prerequisites

Introductory Biology Sequence:

Choose A, B, or C:

A. BIOLOGY 171, BIOLOGY 172 or 174, & BIOLOGY 173; or

B. BIOLOGY 195 (AP/IB) & BIOLOGY 173; or

C. BIOLOGY 191 (transfer credit), BIOLOGY 192, & BIOLOGY 173

Chemistry Sequence:

- CHEM 210 & 211; and,

- CHEM 215 & 216

Quantitative Analysis Sequence:

- CALCULUS I: MATH 115, 120 (AP), 175, 185, or 295; and,
- One course from MATH 116, 121 (AP), 156, 176, 186, or 296; STATS 180 (AP), 206 (*only if elected F20 or later*), 250 or 280; STATS 400-level or above (min. 3 credits); BIOLOGY 202; BIOPHYS / PHYSICS 290; EECS 183, 203 or 280; EARTH 468; or other course with a MATH 115 prereq. chosen in consultation with a major advisor.

[Note: Any course used to fulfill this requirement cannot also be used as a major elective; i.e., a course cannot "double-count."]

Physics Sequence:

- Physics I (lecture & lab): One of the following combinations: PHYSICS 125 & 127; 135 & 136; 140 & 141; 150 & 151 (*only if elected FA21 or later*); or 160 & 161. PHYSICS 139 (AP) will also fulfill this requirement.
- Physics II (lecture & lab): One of the following combinations: PHYSICS 126 & 128; 235 & 236; 240 & 241; 250 & 251 (*only if elected FA21 or later*); or 260 & 261. PHYSICS 239 (AP) will also fulfill this requirement.

Requirements

Minimum Credits: 30

Biology Group Options

(Courses with an asterisk (*) may overlap with the lab requirement):

Choose from one Group I and one from Group II:

- **Group I** - MCDB Elective: Choose 1 from: BIOLOGY 205, BIOLOGY 207*, BIOLOGY 225, or BIOLOGY 230*; BIOLOGY 272; and,
- **Group II** - EEB Elective: Choose 1 from: BIOLOGY 207*, BIOLOGY 230*, BIOLOGY 252*, BIOLOGY 255*, BIOLOGY 256, BIOLOGY 281, BIOLOGY 282, BIOLOGY 288*, or EEB 381*

Required Courses

(Courses with an asterisk (*) may overlap with the lab requirement):

- Genetics: BIOLOGY 305
- Biochemistry: Choose from: MCDB 310, BIOLCHEM 415, or CHEM 351
- Evolution: EEB 390, 391, or 392*

Upper-Level Elective

(May overlap with the lab requirement):

Choose one course in EEB or MCDB at the 300- or 400- level

- EEB / MCDB 301, EEB/MCDB 302, EEB/MCDB 399, EEB/MCDB 499, MCDB 412, MCDB 461 (*only if elected WN21 or later*) and a non-specific (departmental) transfer courses are EXCLUDED.
- EEB / MCDB 300 or 400 (Independent Research), *elected for a minimum of 3 credits in a single term, may be used to fulfill this requirement. (3 credit max. applies; see CONSTRAINTS below.)*

Lab Courses for Biology

(This requirement may OVERLAP with other major reqs.):

3 courses with labs are required. Choose from BIOLOGY 202**, 207, 226, 230, 252, 255, 288; EEB 300*, 313, 320, 321, 330, 341, 348, 372, 373, 381, 391, 392, 400*, 405, 416, 431, 433, 436, 441, 443, 450, 451, 453, 455, 457, 468, 477, 482, 483, 486, 489, 493, 556; MCDB 300*, 306, 308, 400*, 416, 419, 423, 424, 429.

**EEB / MCDB 300 or 400 (Independent Research), elected for a minimum of 3 credits in a single term, may be used to fulfill a lab requirement. (3 credit max. applies; see CONSTRAINTS below.)*

***Only if BIOLOGY 202 is NOT used as a prerequisite for the major*

Additional Course(s):

Choose additional BIOLOGY, EEB, and MCDB courses at the 200-, 300-, or 400-level, to reach 30 major credit hours.

- BIOLOGY 241, BIOLOGY 299, EEB / MCDB 301, EEB / MCDB 302, MCDB 412, MCDB 600, and non-specific (departmental) transfer courses are EXCLUDED.
- A maximum of two approved cognate courses may be used as additional courses: ANTHRIBIO 365, 368, ANTHRIBIO / ENVIRON 461; BIOLCHEM 650; BIOMEDE 231; CHEM 230 and above; CLIMATE / EARTH / SPACE 320; CMPLXSYS 501, 530; EARTH 418, 436, 437; EARTH / ENVIRON 450, 453; ENVIRON 310, 317; EPID 543, 560; HUMGEN 541; MATH 200 and above; MICRBIOL / IMMUN 440; MICRBIOL 405, 415, 430, 460; PHRMACOL 310, 425; PHYSICS / BIOPHYS 290* (only if not used as a prerequisite); PSYCH 337, 338; STATS 401, 412, 425.

Constraints

- Prerequisites, introductory science courses, and non-specific (departmental) transfer courses are EXCLUDED from the 30 cr. required for the major.
- A maximum of three credits of independent research (BIOLOGY 200, EEB/MCDB 300 or 400 or MCDB 360, 361, or 461 *if elected FA19 or later*) may be counted toward the major.

Distribution Policy

No course used to fulfill a major requirement may be used toward the **LSA Distribution Requirement**. In addition, courses in the BIOLOGY, EEB, MCDB, and MICRBIOL subject areas may not be used toward the Distribution Requirement.

Honors

The Program in Biology administers an Honors major to train students to conduct independent research in the biological sciences. Participating in the Honors major allows students to develop their research skills, deepen their understanding of the field, and form productive relationships with faculty and other students. The achievement is noted on the diploma and official transcript.

In addition to completing all the requirements for the major, an honors degree requires:

1. an overall **and** major GPA of at least 3.4, and
2. the completion of a significant piece of independent research that is
 - a. reported in an honors thesis and
 - b. presented in a public forum.

For more information, consult the **Program in Biology Honors Information** page or a Program in Biology advisor.

Biology Minor

The minor in biology offers students a coherent program of study and training in the biological sciences. It provides exposure to the fundamental principles of biology, including studies of the structure, organization, and diversity of life. The minor is well suited for students who wish to pursue a career that requires an understanding and appreciation of the life sciences, though it is not intended for students interested in graduate work in biology.

Effective Winter 2023

Exclusions:

Students who elect a minor in Biology may not elect the following majors: Biology; Biology, Health, and Society (formerly known as General Biology); Plant Biology' Ecology and Evolutionary Biology; Ecology, Evolution, & Biodiversity; Cellular and Molecular Biomedical Science (formerly known as CMB:BME); Microbiology; Molecular, Cellular, and Developmental Biology (MCDB - formerly known as Cellular & Molecular Biology or CMB); Neuroscience; or Biochemistry. They may also not elect a minor in Environmental Studies, Plant Biology, or Ecology and Evolutionary Biology.

The minor in Biology is not intended for students interested in graduate work in the biological sciences.

Advising

Students interested in any major or minor in the biological sciences are encouraged to meet with an advisor to discuss their academic plans as soon as possible! Students should have completed the introductory biology sequence with a 2.0 or better and be in good academic standing. To make an advising appointment, go to the Program in Biology website at <http://lsa.umich.edu/biology/undergraduates/advising.html>

Grade Policies

Total Credits and GPA Requirement for Biology Minor:

Minimum 15 cr. in Minor (minimum of five courses)

Minimum 2.0 GPA in Minor

GPA is calculated from all mandatory prerequisites, all courses used for minor requirements, and all courses in BIOLOGY, EEB, and MCDB.

The introductory biology sequence must be taken for a grade. Courses used for the minor may not be taken pass/fail.

Prerequisites

Introductory Biology Sequence:

Choose Sequence A, B, or C:

- A. BIOLOGY 171, BIOLOGY 172 or 174, & BIOLOGY 173; or
- B. BIOLOGY 195 (AP/IB) & BIOLOGY 173; or
- C. BIOLOGY 191 (transfer credit), BIOLOGY 192, & BIOLOGY 173

Requirements

Minimum Credits: 15

Five courses totaling at least 15 credits, distributed as follows:

Core Courses

Select at least two of the four courses listed. (Courses with an asterisk (*) may overlap with the lab requirement.)

- Ecology: BIOLOGY 281 or 282 or EEB 381*
- Genetics: BIOLOGY 305
- Biochemistry: Choose from: MCDB 310, BIOLCHEM 415, or CHEM 351
- Evolution: EEB 390, 391, or 392*

Lab or Field Course

(This requirement may OVERLAP with other minor reqs.):

Choose one laboratory or field course in BIOLOGY, EEB, or MCDB from the following:

BIOLOGY 202, 207, 226, 230, 252, 255, 288; EEB 300*, 313, 320, 321, 330, 341, 348, 372, 373, 381, 391, 392, 400*, 405, 416, 429, 431, 433, 436, 441, 443, 447, 450, 451, 453, 455, 457, 468, 477, 482, 483, 486, 489, 493, 556; MCDB 300*, 306, 308, 400*, 416, 419, 423, 424, 429.

**EEB/MCDB 300 or 400 (Independent Research), elected for a minimum of 3 credits in a single term, may be used to fulfill a lab requirement.*

Upper-Level Elective

(May overlap with the lab requirement.):

Choose one course in EEB or MCDB at the 300- or 400- level

- Exclusions: EEB/MCDB 301, EEB/MCDB 302, EEB/MCDB 399, EEB/MCDB 499, MCDB 412, MCDB 461, and non-specific (departmental) transfer courses are EXCLUDED.
- EEB/MCDB 300 or 400 (Independent Research), elected for a minimum of 3 credits in a single term, may be used to fulfill this requirement. (3 credit max. applies; see CONSTRAINTS below.)

Additional Course(s)

Choose additional BIOLOGY, EEB, and MCDB courses at the 200-, 300-, or 400-level, to reach 15 minor credit hours.

- Exclusions: BIOLOGY 241, BIOLOGY 299, EEB/MCDB 301, EEB/MCDB 302, MCDB 412, and non-specific (departmental) transfer courses are EXCLUDED.

Constraints

- Prerequisites, introductory science courses, and non-specific (departmental) transfer courses are EXCLUDED from the 15 cr. required for the minor.
- A maximum of three credits of independent research (BIOLOGY 200, EEB/MCDB 300 or 400) may be counted toward the minor.

Biology (Minor) (Winter 2019 - Fall 2022)

Effective Winter 2019

Exclusions:

Students who elect a minor in Biology may not elect the following majors: Biology; Biology, Health, and Society (formerly known as General Biology); Plant Biology' Ecology and Evolutionary Biology; Ecology, Evolution, & Biodiversity; Cellular and Molecular Biomedical Science (formerly known as CMB:BME); Microbiology; Molecular, Cellular, and Developmental Biology (MCDB - formerly known as Cellular & Molecular Biology or CMB); Neuroscience; or Biochemistry. They may also not elect a minor in Environmental Studies, Plant Biology, or Ecology and Evolutionary Biology.

The minor in Biology is not intended for students interested in graduate work in the biological sciences.

Advising

To make an advising appointment, go to the Program in Biology website at <http://lsa.umich.edu/biology/undergraduates/advising.html>

Grade Policies

Total Credits and GPA Requirement for Biology Minor:

Minimum 15 cr. in Minor (minimum of five courses)

Minimum 2.0 GPA in Minor

GPA is calculated from all mandatory prerequisites, all courses used for minor requirements, and all courses in BIOLOGY, EEB, and MCDB.

Prerequisites

Introductory Biology Sequence:

Choose Sequence A, B, or C:

- A. BIOLOGY 171, BIOLOGY 172 or 174, & BIOLOGY 173; or
- B. BIOLOGY 195 (AP/IB) & BIOLOGY 173; or
- C. BIOLOGY 191 (transfer credit), BIOLOGY 192, & BIOLOGY 173

Requirements

Minimum Credits: 15

Five courses totaling at least 15 credits, distributed as follows:

Core Courses

Select at least two of the four courses listed. (Courses with an asterisk (*) may overlap with the lab requirement.)

- Ecology: BIOLOGY 281 or 282 or EEB 381*
- Genetics: BIOLOGY 305
- Biochemistry: Choose from: MCDB 310, BIOLCHEM 415, or CHEM 351
- Evolution: EEB 390, 391, or 392*

Lab or Field Course

(This requirement may OVERLAP with other minor reqs.):

Choose one laboratory or field course in BIOLOGY, EEB, or MCDB from the following: BIOLOGY 202, 207, 226, 230, 252, 255, 288; EEB 300*, 313, 320, 321, 330, 341, 348, 372, 373, 381, 391, 392, 400*, 405, 416, 431, 433, 436, 441, 443, 450, 451, 453, 455, 457, 468, 477, 482, 483, 486, 489, 493, 556; MCDB 300*, 306, 308, 400*, 416, 419, 423, 424, 429.

**EEB/MCDB 300 or 400 (Independent Research), elected for a minimum of 3 credits in a single term, may be used to fulfill a lab requirement.*

Upper-Level Elective

(May overlap with the lab requirement.):

Choose one course in EEB or MCDB at the 300- or 400- level

- EEB/MCDB 301, EEB/MCDB 302, EEB/MCDB 399, EEB/MCDB 499, MCDB 412, MCDB 461, and non-specific (departmental) transfer courses are EXCLUDED.
- EEB/MCDB 300 or 400 (Independent Research), elected for a minimum of 3 credits in a single term, may be used to fulfill this requirement. (3 credit max. applies; see CONSTRAINTS below.)

Additional Course(s)

Choose additional BIOLOGY, EEB, and MCDB courses at the 200-, 300-, or 400-level, to reach 15 minor credit hours.

- BIOLOGY 241, BIOLOGY 299, EEB/MCDB 301, EEB/MCDB 302, MCDB 412, and non-specific (departmental) transfer courses are EXCLUDED.

Constraints

- Prerequisites, introductory science courses, and non-specific (departmental) transfer courses are EXCLUDED from the 15 cr. required for the minor.
- A maximum of three credits of independent research (BIOLOGY 200, EEB/MCDB 300 or 400) may be counted toward the minor.

Biology, Health, and Society Major

Biology, Health, & Society (BHS) is recommended for students interested in a broad view of biology and the interactions between science and society, whether focused on health, education or the environment. The major is appropriate for pre-health students, as well as those who wish to pursue professional school (e.g., law school) or other non-biology-specific career options where knowledge of the natural sciences would be beneficial. BHS also works well when paired with another (non-)science field of study in a dual major. It differs from other Biology majors in that it requires fewer credits, less laboratory work, and has more breadth.

Effective Winter 2023

Exclusions:

Students who elect a major in Biology, Health, & Society may not elect the following majors: Biology; Molecular, Cellular, and Developmental Biology (MCDB - formerly known as Cellular & Molecular Biology or CMB); Cellular and Molecular Biomedical Science (formerly known as CMB:BME); Ecology, Evolution, and Biodiversity; Ecology and Evolutionary Biology; Microbiology; Plant Biology; Biochemistry; Biomolecular Science; Neuroscience; or Evolutionary Anthropology. They may also not elect a minor in Biology; Ecology and Evolutionary Biology; or Plant Biology. Students pursuing a dual-degree program (MDDP) with School of Public Health and LSA may not elect a major in Biology, Health, & Society (BHS).

Advising

Students are advised by a combination of Undergraduate Biology Office staff and faculty department advisors. Advising topics include investigating majors, declaring a major, course planning, research and Honors, major releases, graduate school and career advice. Students interested in any major in the biological sciences are encouraged to meet with an advisor to discuss their academic plans as soon as possible! Students need not have completed all of the major prerequisites to declare, but should have completed the introductory biology sequence with a 2.0 GPA or better and be in good academic standing. To make an appointment, go to the Program in Biology website at www.lsa.umich.edu/biology.

Grade Policies

Total Credits and GPA Requirement for Biology, Health, & Society:

Minimum 24 cr. in Major

Minimum 2.0 GPA in Major

GPA is calculated from all mandatory prerequisites, all courses used for major requirements (including cognates), and all courses in BIOLOGY, EEB, and MCDB.

The introductory biology sequence must be taken for a grade. Prerequisites other than introductory biology may be taken pass/fail; however, it is not recommended, especially for chemistry.

Remember that at least a C- must be earned to pass a course taken pass/fail.

Courses used for the major may not be taken pass/fail.

Prerequisites

Introductory Biology Sequence:

Choose Sequence A, B, or C:

- A. BIOLOGY 171, BIOLOGY 172 or 174, & BIOLOGY 173; or
- B. BIOLOGY 195 (AP/IB) & BIOLOGY 173; or
- C. BIOLOGY 191 (transfer credit), BIOLOGY 192, & BIOLOGY 173

Chemistry:

- CHEM 210 & 211

Quantitative Analysis Sequence:

Choose three courses from the following options: [Note: Any course used to fulfill this requirement cannot also be used as a major elective; i.e., a course cannot "double-count."]

- Calculus 1: MATH 115, 120 (AP), 175, 185, or 295
- Calculus 2: MATH 116, 121 (AP), 156, 176, 186, or 296
- Physics I: PHYSICS 125, 135, 139 (AP), 140, 150, or 160
- Physics II: PHYSICS 126, 235, 239 (AP), 240, 250, or 260
- Computer Programming: EECS 183, 203, and/or 280
- Statistics: [STATS 180 (AP), 206, 250, or 280]; and/or STATS 400-level or above (min. 3 credits)
- BIOLOGY 202
- BIOPHYS/PHYSICS 290; BIOPHYS 117
- EARTH 468

Requirements

Minimum Credits: 24

Biology, Health, & Society Group Options:

(Courses with an asterisk (*) may overlap with the lab requirement)

Choose two courses each from groups A & B:

- **Group A: Gateway Biology Options:** Choose two (2) courses (min. 6 credits) from: BIOLOGY 205, 207*, 222 (*through FA21*), 225, 230*, 252*, 255*, 256, 272, 288*
- **Group B: Health & Society Options:** Choose two (2) courses (min. 6 credits total) from: AAS 322 section titled "Introduction to Environmental Politics: Race, Class and Gender" (*only if elected FA17 or later*), ALA 306 / WGS 305 (WOMENSTD 305), BIOLOGY 212; BIOLOGY/AMCULT 241; MCDB 396; EEB/ENVIRON 318; EEB/ANTHRBIO/ENVIRON 362; EEB 498; AMCULT/WGS 233 (WOMENSTD 233); AMCULT/HISTORY 284; AMCULT 365; ANTHRIBIO 363, 364, 373, 467; ANTHRCUL / RCSSCI 327 / WGS 307 (WOMENSTD 307); ANTHRCUL 341, 344; ENVIRON 270, 308, 310; ENVIRON / ANTHRCUL 256, ENVIRON 312 / POLSCI 308 / PUBPOL 312; ENVIRON / PSYCH 360; HISTORY 233, 234, 285; HISTORY / AAS / ANTHRCUL 355; HISTORY / WGS 356 (WOMENSTD 356); HISTORY 376; IHS 340; PHIL 320, 356, 381, 425; PUBHLTH 200 / PUBPOL 210; PUBHLTH 305, 310 (*only if elected WN18 or later*), 350, 381, 403; SOC 302, 475, 476; WGS / NURS 220 (WOMENSTD / NURS 220) , 300, 324, 400.

Core Courses:

(Courses with an asterisk (*) may overlap with the lab requirement)

- **Group C - Core Biology:** Choose two (2) courses (min. 6 credits) from: Genetics: BIOLOGY 305; Biochemistry: Choose from: MCDB 310, BIOLCHEM 415, or CHEM 351; Evolution: EEB 390, 391, or 392*; or Ecology: BIOLOGY 281 or 282 or EEB 381*
- **Group D - Biology Elective:** Choose one course (min. 3 credits) from Group D: BIOLOGY, EEB, or MCDB 200-, 300-, or 400-level (excluding BIOLOGY 200, 212, 241, 299; MCDB/EEB 300, 301, 302, 360 (*only if elected until WN21*), 396, 397, 399, 400, 412, 460 (*only if elected until WN21*), 461 (*only if elected until WN21*), 494, 499)

Lab Requirement for Biology, Health, & Society:

(This requirement may OVERLAP with other major reqs.)

- 1 course with a lab is required. Choose from: BIOLOGY 202**, 207, 226, 230, 252, 255, 288; EEB 300*, 313, 320, 321, 330, 341, 348, 372, 373, 381, 391 (*as of WN22*), 392, 400*, 405, 416, 431, 433, 436, 441, 443, 447, 450, 451, 453, 455, 457, 468, 477, 482, 483, 486, 489, 493, 556; MCDB 300*, 306, 308, 400*, 413 (*only through Winter 2019*), 416, 419, 423, 424, 429 **EEB/MCDB 300 or 400 (Independent Research), elected for a minimum of 3 credits in a single term, may be used to fulfill a lab requirement. (3 credit max. applies: see CONSTRAINTS below.)*
- ** *Only if BIOLOGY 202 is not used as a prerequisite for the major*

Additional Courses:

Choose additional courses, if needed, to reach 24 major credit hours from:

- Groups A, B, C, or D (above)
- BIOLOGY 200**, BIOLOGY 299; CHEM 230 and above; EEB/MCDB 300**, 399, 400**; MATH 200-level or above*; MICRBIOL 440, 460; MCDB 397, 494, or 499; PHYSICS 200-level or above*; or STATS 206* (*if elected FA20 or later*), 250*, STATS 400-level or above*

(*Courses used here may not also be used as prerequisites)
(**3 credit max. applies: see CONSTRAINTS below.)

Constraints

- Prerequisites, introductory science courses, and non-specific (departmental) transfer courses are EXCLUDED from the 24 cr. required for the major.
- Test credits may not be used to meet the requirements of a major.
- A maximum of three credits of independent research (BIOLOGY 200 or 299, EEB/MCDB 300 or 400 or MCDB 360, 460, or 461 *only if elected FA19 or later*) may be counted toward the major.

Distribution Policy

No course used to fulfill a major requirement may be used toward the **LSA Distribution Requirement**. In addition, courses in the BIOLOGY, EEB, MCDB, and MICRBIOL subject areas may not be used toward the Distribution Requirement.

Honors

The Program in Biology administers an Honors Program to train students to conduct independent research in the biological sciences. Participating in the honors program allows students to develop their research skills, deepen their understanding of the field, and form productive relationships with faculty and other students. The achievement is noted on the diploma and official transcript.

In addition to completing all the requirements for the major, an honors degree requires:

1. an overall **and** major GPA of at least 3.4,
2. participation in at least two terms of independent research, and
3. the completion of a significant piece of independent research that is
 - reported in an honors thesis and
 - presented in a public forum.

Note that undergraduate research students typically register for an independent research course (as appropriate for their major) during each term of research. Formal course registration is encouraged, but not required. For more information, including the Honors Program application, consult the **Program in Biology Honors Information page**.

Biology, Health, and Society (Major) (Fall 2021 - Fall 2022)

Effective Fall 2021

Exclusions:

Students who elect a major in Biology, Health, & Society may not elect the following majors: Biology; Molecular, Cellular, and Developmental Biology (MCDB - formerly known as Cellular & Molecular Biology or CMB); Cellular and Molecular Biomedical Science (formerly known as CMB:BME); Ecology, Evolution, and Biodiversity; Ecology and Evolutionary Biology; Microbiology; Plant Biology; Biochemistry; Biomolecular Science; Neuroscience; or Evolutionary Anthropology. They may also not elect a minor in Biology; Ecology and Evolutionary Biology; or Plant Biology. Students pursuing a dual-degree program (MDDP) with School of Public Health and LSA may not elect a major in Biology, Health, & Society (BHS).

Advising

Students are advised by a combination of Undergraduate Biology Office staff and faculty department advisors. **Advising** topics include investigating majors, declaring a major, course planning, research and honors, major releases, graduate school and career advice. Students who are interested in the Program in Biology majors or minors should consult a general advisor during the freshman year, and are strongly encouraged to meet with a department advisor early in their academic career, but no later than the second term of their sophomore year. It is not necessary to complete every prerequisite before declaring a major.

To make an appointment, go to the Program in Biology website at www.lsa.umich.edu/biology.

Grade Policies

Total Credits and GPA Requirement for Biology, Health, & Society:

Minimum 24 cr. in Major

Minimum 2.0 GPA in Major

GPA is calculated from all mandatory prerequisites, all courses used for major requirements (including cognates), and all courses in BIOLOGY, EEB, and MCDB.

The introductory biology sequence must be taken for a grade. Prerequisites other than introductory biology may be taken pass/fail; however, it is not recommended, especially for chemistry.

Remember that at least a C- must be earned to pass a course taken pass/fail.

Courses used for the major may not be taken pass/fail.

Prerequisites

Introductory Biology Sequence:

Choose Sequence A, B, or C:

- A. BIOLOGY 171, BIOLOGY 172 or 174, & BIOLOGY 173; or
- B. BIOLOGY 195 (AP/IB) & BIOLOGY 173; or
- C. BIOLOGY 191 (transfer credit), BIOLOGY 192, & BIOLOGY 173

Chemistry:

- CHEM 210 & 211

Quantitative Analysis Sequence:

- CALCULUS I: MATH 115, 120 (AP), 175, 185, or 295; and,
- One course from: MATH 116, 121 (AP), 156, 176, 186, or 296; STATS 180 (AP), 206 (*if elected FA20 or later*), 250 or 280; STATS 400-level or above (min. 3 credits); BIOLOGY 202; BIOPHYS/PHYSICS 290; EECS 183, 203 or 280; EARTH 468; PHYSICS 125, 135, 139, 140, or 160; or other course with a MATH 115 prereq. chosen in consultation with a major advisor.

[NOTE: Any course used to fulfill this requirement cannot also be used as a major elective; i.e., a course cannot "double-count."]

Requirements

Minimum Credits: 24

Biology, Health, & Society Group Options:

(Courses with an asterisk (*) may overlap with the lab requirement)

Choose two courses each from groups A & B:

- **Group A: Gateway Biology Options:** Choose two (2) courses (min. 6 credits) from: BIOLOGY 205, 207*, 222 (*through FA21*), 225, 230*, 252*, 255*, 256, 272, 288*

- **Group B: Health & Society Options:** Choose two (2) courses (min. 6 credits total) from: AAS 322 section titled "Introduction to Environmental Politics: Race, Class and Gender" (*only if elected FA17 or later*), ALA 306 / WGS 305 (WOMENSTD 305), BIOLOGY 212; BIOLOGY/AMCULT 241; MCDB 396; EEB/ENVIRON 318; EEB/ANTHRBIO/ENVIRON 362; EEB 498; AMCULT/WGS 233 (WOMENSTD 233); AMCULT/HISTORY 284; AMCULT 365; ANTHRIBIO 363, 364, 373, 467; ANTHRCUL / RCSSCI 327 / WGS 307 (WOMENSTD 307); ANTHRCUL 341, 344; ENVIRON 270, 308, 310; ENVIRON / ANTHRCUL 256, ENVIRON 312 / POLSCI 308 / PUBPOL 312; ENVIRON / PSYCH 360; HISTORY 233, 234, 285; HISTORY / AAS / ANTHRCUL 355; HISTORY / WGS 356 (WOMENSTD 356); HISTORY 376; IHS 340; PHIL 320, 356, 381, 425; PUBHLTH 200 / PUBPOL 210; PUBHLTH 305, 310 (*only if elected WN18 or later*), 350, 381, 403; SOC 302, 475, 476; WGS / NURS 220 (WOMENSTD / NURS 220) , 300, 324, 400.

Core Courses:

(Courses with an asterisk (*) may overlap with the lab requirement)

- **Group C - Core Biology:** Choose two (2) courses (min. 6 credits) from: Genetics: BIOLOGY 305; Biochemistry: Choose from: MCDB 310, BIOLCHEM 415, or CHEM 351; Evolution: EEB 390, 391, or 392*, or Ecology: BIOLOGY 281 or 282 or EEB 381*
- **Group D - Biology Elective:** Choose one course (min. 3 credits) from Group D: BIOLOGY, EEB, or MCDB 200-, 300-, or 400-level (excluding BIOLOGY 200, 212, 241, 299; MCDB/EEB 300, 301, 302, 360 (*only if elected until WN21*), 396, 397, 399, 400, 412, 460 (*only if elected until WN21*), 461 (*only if elected until WN21*), 494, 499)

Lab Requirement for Biology, Health, & Society:

(This requirement may OVERLAP with other major reqs.)

- 1 course with a lab is required. Choose from: BIOLOGY 202**, 207, 226, 230, 252, 255, 288; EEB 300*, 313, 320, 321, 330, 341, 348, 372, 373, 381, 391 (*as of WN22*), 392, 400*, 405, 416, 431, 433, 436, 441, 443, 450, 451, 453, 455, 457, 468, 477, 482, 483, 486, 489, 493, 556; MCDB 300*, 306, 308, 400*, 413 (*only through Winter 2019*), 416, 419, 423, 424, 429 **EEB/MCDB 300 or 400 (Independent Research), elected for a minimum of 3 credits in a single term, may be used to fulfill a lab requirement. (3 credit max. applies: see CONSTRAINTS below.)*
- ** *Only if BIOLOGY 202 is not used as a prerequisite for the major*

Additional Courses:

Choose additional courses, if needed, to reach 24 major credit hours from:

- Groups A, B, C, or D (above)
- BIOLOGY 200**, BIOLOGY 299; CHEM 230 and above; EEB/MCDB 300**, 399, 400**; MATH 200-level or above*; MICRBIOL 440, 460; MCDB 397, 494, or 499; PHYSICS 200-level or above*; or STATS 206 (*if elected FA20 or later*), 250*, STATS 400-level or above* (*Courses used here may not also be used as prerequisites) (**3 credit max. applies: see CONSTRAINTS below.)

Constraints

- Prerequisites, introductory science courses, and non-specific (departmental) transfer courses are EXCLUDED from the 24 cr. required for the major.
- Test credits may not be used to meet the requirements of a major.

- A maximum of three credits of independent research (BIOLOGY 200 or 299, EEB/MCDB 300 or 400 or MCDB 360, 460, or 461 (*only if elected FA19 or later*)) may be counted toward the major.

Distribution Policy

No course used to fulfill a major requirement may be used toward the **LSA Distribution Requirement**. In addition, courses in the BIOLOGY, EEB, MCDB, and MICRBIOL subject areas may not be used toward the Distribution Requirement.

Honors

The Program in Biology administers an Honors Program to train students to conduct independent research in the biological sciences. Participating in the honors program allows students to develop their research skills, deepen their understanding of the field, and form productive relationships with faculty and other students. The achievement is noted on the diploma and official transcript.

In addition to completing all the requirements for the major, an honors degree requires:

1. an overall **and** major GPA of at least 3.4, and
2. the completion of a significant piece of independent research that is
 - reported in an honors thesis and
 - presented in a public forum.

For more information, consult the Program in Biology Honors Program Information page or a Program in Biology advisor.

Biomolecular Science Major

The major in Biomolecular Science serves pre-health students and others who are not intending to go into science as a career but would benefit from a scientific credential. In addition to medicine, we envisage that this major will be of interest to students planning careers in fields such as education, journalism, science policy, business, law, etc. The Biomolecular Science major provides students with the core knowledge necessary to understand the chemical principles underpinning biology and the option to explore aspects of the subject of interest to them through a set of electives drawn from current course offerings in chemistry, biophysics and MCDB. The major differs from the Biochemistry major in requiring fewer courses and does not have a research component. Biomolecular Sciences is a less extensive major than Biochemistry, and is primarily aimed at those planning a career outside of the chemical sciences. Instead, this may be an attractive degree option for students who plan to pursue post-graduate studies in Biomedical or Health Sciences. Students who are intending to pursue graduate studies or an industrial career in biochemistry or related areas are strongly encouraged to elect the Biochemistry major. The major is structured so that students can readily convert to the BS major in Biochemistry if they decide to do so during the course of their studies.

The curricula in Chemistry serve those preparing for careers in chemistry, biochemistry, medicine, chemical engineering, pharmacy, and allied fields as well as those seeking a general knowledge of chemistry as part of a liberal arts education. Beyond the first-year courses, there is an emphasis on development of technical knowledge and laboratory experience needed in chemistry and related scientific fields. The undergraduate majors prepare students for work in research and testing laboratories, as well as for business positions in which a chemistry background is desirable.

Graduate work is necessary for those planning to do college and university teaching or industrial research.

BS Major in Biomolecular Science: The B.S. Major in Biomolecular Science provides students with the core knowledge necessary to understand the chemical principles underpinning biology and the option to explore other courses in chemistry, biophysics, and molecular, cellular and developmental biology. This degree provides exposure to all of the core topics in the area of biochemistry, but also provides more flexibility in course selection than the B.S. Major in Biochemistry. This degree provides a good foundation for students planning to attend graduate school in an interdisciplinary field related to chemistry and biology, and also provides good preparation for those who intend to pursue graduate studies in biochemistry. This degree also provides a solid foundation for students who plan to pursue degrees in the health sciences by providing opportunities for broad exposure to chemistry, biochemistry, biophysics, molecular biology, and related fields.

It is strongly recommended that students who are thinking of degrees in chemistry should arrange an appointment with a Chemistry advisor via the online advising system as soon as possible, preferably before the end of their first year but certainly before the end of the sophomore year. The online appointment scheduling system can be found here: <http://www.umich.edu/~michchem/undergrad/index.html>.

Effective Winter 2022

Exclusions:

Students who elect a major in Biomolecular Science may not elect the following majors: Biology, General Biology; Biology, Health, & Society; Molecular, Cellular, and Developmental Biology (formerly known as Cell and Molecular Biology, or CMB); Biomedical Engineering; Ecology and Evolutionary Biology; Microbiology; or Neuroscience. They may also not elect a minor in Biology, or any of the Chemistry minors.

Advising

Students develop a plan for the major in consultation with a program advisor. Those interested in a B.S. degree with a major in Chemical Science (120 credits) or the specialized program leading to the *Bachelor of Science in Chemistry* (124 credits) are urged to consult a program advisor during the freshman and/or sophomore years. Prospective majors are advised that further study in chemistry requires adequate performance in early chemistry courses (preferably B- or better) as well as in the mathematics and physics prerequisites. Students interested in an Honors degree should see the Chemistry Honors advisor. Appointments are scheduled online at www.lsa.umich.edu/chem/undergraduate/advising. Students interested in the joint program with the College of Engineering should make an appointment with their LSA advising unit and then make an appointment to see a chemistry department advisor.

Grade Policies

The department strongly recommends that a student earn a grade of at least C- in all CHEM courses and mathematics, physics, and biology courses that are prerequisite for subsequent elections. A major program grade point average of at least 2.0 is required; this includes chemistry courses, mathematics, physics, and biology prerequisites, and advanced electives that are part of a major plan. Prerequisites must be taken for a grade. Students must request any change in a

chemistry course grade within the first fifteen University Business days of the first full term following the term in which the disputed grade was issued.

Prerequisites

- BIOLOGY 171, 172 (or 195) and 173
- CHEM 130, 125/126; or CHEM 245/246/247 for students with AP credit for CHEM 130, 125/126
- MATH 115 (or 120); (or the equivalent)
- MATH 116 (or 121), STATS 250, STATS 280; or the equivalent
- PHYSICS [125/127 or 135/136 or 139 or 140/141 or 150/151] and [126/128 or 235/236 or 239 or 240/241 or 250/251] (or the equivalent).

Requirements

Minimum Credits: 25

1. **Core:** CHEM 210/211; CHEM 215; CHEM 230 or 260; CHEM 351* and 352 or 353
*Students are strongly encouraged to take CHEM 351 but could substitute this course requirement with MCDB 310 or BIOLCHEM 415.
2. **Electives:** A total of at least 9 credits (three courses) with at least one course at the 400-level:
 - A. At least one course chosen from:
 - CHEM 302, 303, 419, 420, 421, 425, 436, 451, 452, 453, 455, 465, 474
 - BIOLCHEM 451, 452
 - B. At least one course chosen from:
 - BIOLOGY 305
 - BIOPHYS 420, 421, 430 (*only if elected W20 or later*), 440
 - CHEM 440
 - MCDB 405, 422, 427, 428, 433 (*only if elected W18 or later*), 436 (*only if elected W18 or later*), 437, 452
 - MICRBIOL 405 (*only if elected W18 or later*)
 - PHARMACOL 310, 425
 - PHYSIOL 502 (*only if elected W18 or later*)

Distribution Policy

No course used to fulfill a major requirement may be used toward the **LSA Distribution Requirement**. In addition, courses in the CHEM subject area may not be used toward the Distribution Requirement.

Honors

Effective Winter 2013

Students may obtain Honors in Biomolecular Science by successfully completing all courses required for the Biomolecular Science major with an overall GPA of 3.4. In addition, students obtaining Honors must complete one additional upper-level Chemistry elective (chosen in consultation with the department advisor), complete four credits elected over at least two terms of CHEM 398 and write a thesis based on their undergraduate research. Students must register for one credit of CHEM 498 in the term in which they plan to submit their thesis.

Biophysics Minor

The minor in biophysics is designed to give students in the natural sciences exposure and skills in quantitative, interdisciplinary work in the biophysical sciences.

Effective Winter 2016

Exclusions:

Not open to those electing a major in the Program in Biophysics.

Advising

The Program in Biophysics currently offers a **B.S. degree in Biophysics** and a minor in Biophysics. Students interested in either option are strongly encouraged to schedule an advising appointment by contacting Student Services at **biophysics@umich.edu**.

Prerequisites

None for the minor *per se*, although individual courses elected to meet the requirements of the minor may have course prerequisites.

Requirements

Minimum Credits: 15

The minor requires at least 15 credits from the following courses:

- PHYSICS 340 or CHEM 210
- BIOLOGY 305 or MCDB 310 or CHEM 351
- BIOPHYS 370 or 417, or PHYSICS 370 or 417, or CHEM 370 or 417
- BIOPHYS 290 or 430 or 440, or PHYSICS 290 or 430, or CHEM 440
- BIOPHYS 450 or PHYSICS 450

Students wishing to pursue this option are strongly encouraged to talk to an advisor because the LSA rules for double-counting courses towards a major and minor apply.

Biophysics (B.S.) (Major)

The biophysics major is designed for students with a strong interest in the natural sciences who intend to embark on a career as a biophysical or medical scientist. It is intended to satisfy the admission requirements of most combined MD/Ph.D. programs and provide a strong foundation for quantitative interdisciplinary work in the biophysical or biomedical sciences or related fields, such as biomedical engineering.

The major requires introductory courses in Mathematics, Physics, Chemistry and Biology, followed by specialized biophysics courses. In addition, participation in research is required, which allows students to explore cutting-edge biophysical research and gain valuable experience for a future career.

Effective Winter 2020

Advising

The Program in Biophysics currently offers a **B.S. degree in Biophysics** and a **minor in Biophysics**. Students interested in either option are strongly encouraged to schedule an advising appointment by contacting Student Services at **biophysics@umich.edu**.

Grade Policies

The Biophysics department strongly recommends that a student earn a grade of at least C– in all BIOPHYS courses and mathematics, chemistry, physics, and biology courses that are prerequisite for subsequent elections. A major program grade point average of at least 2.0 is required; this includes biophysics courses, chemistry, mathematics, physics, and biology prerequisites, and advanced electives that are part of a major plan.

Prerequisites

See specific prerequisites listed under Biological Physics Track or Structural Biology Track.

Requirements

Minimum Credits: 26

The Biophysics Major consists of two tracks:

- **Biological Physics Track**
- **Structural Biology Track**

Distribution Policy

No course used to fulfill a major requirement may be used toward the **LSA Distribution Requirement**. In addition, courses in the BIOPHYSICS subject areas may not be used toward the Distribution Requirement.

Honors

In addition to completing all the Biophysics requirements for the major, a GPA in the major of at least 3.4 and the completion of an Honors thesis (BIOPHYS 499) with a grade of B or better, and a second Biophysics elective are required.

Approved Honors electives are all biophysics and cognate electives above, and BIOPHYS 440 or CHEM 440, CHEM 453, MCDB 422, MCDB 428, PHYSICS 402, and PHYSICS 453. Students double majoring in Biophysics and any major in the Department of Physics cannot use PHYSICS 402, 406, or 453 to satisfy the Biophysics cognate or Honors elective requirement.

Biopsychology, Cognition, and Neuroscience(BCN) Major

Curriculum

The curriculum in psychology is intended to enhance one's understanding of behavioral science and of oneself and others in terms of concepts developed by study. The undergraduate major program is not intended to prepare students for any specific vocational objective; to become a professional psychologist requires from two to four years (or more) of graduate study.

Curriculum Guides. Curriculum Guides are available for both Psychology and Biopsychology,

Cognition, and Neuroscience majors. Clusters are groupings of courses (both within the Department of Psychology and throughout other programs at the University of Michigan) that focus on a more specific area related to psychology. Students are encouraged to refer to these clusters when making academic and career goals.

The following clusters are currently available:

- Behavioral and Cognitive Neuroscience
- Business, Systems, and Organizations
- Culture, Context, and Communities
- Development, Psychopathology, and Mental Health
- Evolution, Biology, and Behavior
- Gender, Psychology, and Society
- Health, Development, and Aging
- Intergroup Relations
- Language, Thought, and Culture
- Law, Criminal Justice, and Forensics

Goals of the Major in BCN

The overall goal of Biopsychology, Cognition, and Neuroscience major is to provide a course of study that integrates the natural science components of the study of behavior and prepares students for graduate study in a number of related fields. The program integrates neuroscience, cognitive science, and evolutionary approaches to the study of behavior. This major is particularly appropriate for students interested in graduate study of human cognition, biopsychology, behavioral neuroscience, comparative animal behavior, and evolutionary psychology. A variety of research course options are available to provide the research training needed for post-graduate study. A variety of other career opportunities are also available when additional appropriate courses are chosen from other departments.

Biological Physics Track (Sub-Major)

The Biological Physics track is primarily focused on educating undergraduate students in the basics of Biophysics. In addition, participation in research is required, which allows students to explore cutting-edge biophysical research and gain valuable experience for a future career.

Effective Fall 2021

Prerequisites

- MATH 115 and 116
- MATH 215 and 216; *or* CHEM 262
- CHEM 210/211 and 215
- PHYSICS 150/151 and 250/251 *or* 140/141 and 240/241 *or* 160/161 and 260/261 *or* 139/239 (*or* 135/136 and 235/236)
- BIOLOGY 172, 174, 191, 192, *or* 195

NOTE: students with Math AP credit are advised to take the MATH 215, 216 sequence

Requirements

Minimum Credits: 28**Core:**

1. BIOPHYS / CHEM / PHYSICS 370: Physical and Chemical Principles behind Biology and Medicine
2. BIOPHYS / CHEM / PHYSICS 417: Dynamical Processes in Biophysics
3. BIOPHYS / PHYSICS 450: Biophysics Laboratory
4. BIOPHYS 495: Senior Seminar in Biophysics

Outside Core:

1. CHEM / BIOLCHEM 351: Fundamentals of Biochemistry **or** MCDB 310 (Introductory Biochemistry) **or** BIOLCHEM 415 (Introductory Biochemistry)

Electives:

Three of the following:

- BIOPHYS / MCDB 420: Structural Biology: The Architecture of Life
- BIOPHYS 421: Structural Biology: Biophysical Controversies
- BIOPHYS / CHEM 422: Exp Methods in Structural Biology
- BIOPHYS / PHYSICS 430: Medical Physics
- BIOPHYS / PHYSICS 433: Biocomplexity
- BIOPHYS 435: Biophysical Modeling
- BIOPHYS / CHEM 440: Biophysics of Diseases
- BIOPHYS / CMPLXSYS / PHYSICS 445: Introduction to Information Theory for the Natural Sciences (*only if taken FA20 or later*)
- BIOPHYS / CHEM 454: Macromolecular Structure & Dynamics
- BIOPHYS / MATH / BIOINF 463: Mathematical Modeling in Biology
- BIOPHYS / CHEM 520: Biophysical Chemistry: Methods & Techniques
- BIOPHYS / CHEM 521: Biophysical Chemistry: Theories

Note: Other 400-level Physics, Chemistry, or Biology courses may be accepted, per approval of the Undergraduate Chair

Cognate:

One of the following:

- MATH 404: Intermediate Differential Equations
- MATH 471: Intro to Numerical Methods
- PHYSICS 406: Statistical Mechanics and Thermodynamics
- PHYSICS 453: Quantum Mechanics
- CHEM / BIOLCHEM 451: Biochemistry I
- MCDB 427: Molecular Biology
- MCDB 428: Cell Biology

Note: Other 400-level Physics, Chemistry, or Biology courses may be accepted, per approval of the Undergraduate Chair.

Students double majoring in Biophysics and any major in the Department of Physics cannot use PHYSICS 402, 406, or 453 to satisfy the Biophysics cognate or Honors elective requirement.

Research:

At least two credits of BIOPHYS 399. Students wishing to conduct research in a laboratory outside of the Program must identify a Biophysics co-sponsor.

Distribution Policy

No course used to fulfill a major requirement may be used toward the **LSA Distribution Requirement**. In addition, courses in the BIOPHYS subject area may not be used toward the Distribution Requirement.

Honors

In addition to completing all the Biophysics requirements for the major, a GPA in the major of at least 3.4 and the completion of an Honors thesis (BIOPHYS 499) with a grade of B or better, and a third Biophysics elective are required. **Approved Honors electives are all Biophysics and cognate electives above, plus CHEM 453, MCDB 422, PHYSICS 402 and PHYSICS 453.** Other courses may be accepted, per approval of the Undergraduate Chair.

Structural Biology Track (Sub-Major)

The Structural Biology Track is intended to educate students on the applications of Biophysics to fully understand the recent advances in biological and biomedical sciences, and to prepare them for careers that integrate the physical principles that govern biology with the modern methods and techniques that represent the forefront of structurally directed biophysical research. Students who pursue the Structural Biology track will be well equipped for graduate studies in biophysics, biochemistry, chemical biology, biomedical engineering, and also in other disciplines of life sciences. This track also will provide excellent preparation for students intending to pursue professional careers in the Biotechnology industry as well as the Health Sciences.

Effective Fall 2021

Prerequisites

- MATH 115 and 116
- MATH 215 and 216, **or** CHEM 262
- CHEM 210 / 211, 215;
- PHYSICS 150/151 and 250/251 or 140/141 and 240/241 or 160/161 and 260/261 or 139/239 (or 135/136 and 235/236)
- BIOLOGY 172 **or** 174 **or** 191 **or** 192 **or** 195.

Requirements

Minimum Credits: 26

Core:

1. BIOPHYS / CHEM / PHYSICS 370: Physical and Chemical Principles behind Biology and Medicine
2. BIOPHYS / MCDB 420: Structural Biology I
3. BIOPHYS 421: Structural Biology II
4. BIOPHYS / PHYSICS 450: Biophysics Laboratory

5. BIOPHYS 495: Senior Seminar in Biophysics

Outside Core:

- CHEM / BIOLCHEM 351: Fundamentals of Biochemistry *or*
- MCDB 310: Introductory Biochemistry *or*
- BIOLCHEM 415: Introductory Biochemistry

Electives:

One of the following:

- BIOPHYS / CHEM / PHYSICS 417: Dynamical Processes
- BIOPHYS / CHEM 422: Exp Methods in Structural Biology
- BIOPHYS / PHYSICS 430: Medical Physics
- BIOPHYS 435: Biophysical Modeling
- BIOPHYS / CHEM 440: Biophysics of Diseases
- BIOPHYS / CMPLXSYS / PHYSICS 445: Introduction to Information Theory for the Natural Sciences (*only if taken FA20 or later*)
- BIOPHYS / CHEM 454: Biophysical Chemistry II
- BIOPHYS / MATH / BIOINF 463: Mathematical Modeling in Biology
- BIOPHYS / CHEM 520: Theory & Methods of Biological Chemistry
- BIOPHYS / CHEM 521: Techniques in Biophysical Chemistry

Note: Other 400-level Physics, Chemistry, or Biology courses may be accepted, per approval of the Undergraduate Chair

Cognate:

One of the following:

- CHEM / BIOLCHEM 451: Biochemistry I
- MCDB 427: Molecular Biology
- MCDB 428: Cell Biology
- BIOLCHEM / CHEMBIO 530: Protein Protein or Protein-Ligand Interactions by NMR
- BIOLCHEM 550: Macromolecular Structure and Function

Note: Other 400-level Physics, Chemistry, or Biology courses may be accepted, per approval of the Undergraduate Chair

Research:

At least two credits of BIOPHYS 399. Students wishing to conduct research in a laboratory outside of the Program must identify a Biophysics co-sponsor.

Distribution Policy

No course used to fulfill a major requirement may be used toward the **LSA Distribution Requirement**. In addition, courses in the BIOPHYS subject area may not be used toward the Distribution Requirement.

Honors

In addition to completing all the Biophysics requirements for the major, a GPA in the major of at

least 3.4 and the completion of an Honors thesis (BIOPHYS 499) with a grade of B or better, and a second Biophysics elective are required. **Approved Honors electives are all Biophysics and cognate electives above, plus CHEM 453, MCDB 422, PHYSICS 402 and PHYSICS 453.** Other courses may be accepted per approval of the Undergraduate Chair.

Biopsychology, Cognition, and Neuroscience (BCN Major)

Curriculum

The curriculum in psychology is intended to enhance one's understanding of behavioral science and of oneself and others in terms of concepts developed by study. The undergraduate major program is not intended to prepare students for any specific vocational objective; to become a professional psychologist requires from two to four years (or more) of graduate study.

Curriculum Guides. Curriculum Guides are available for both Psychology and Biopsychology, Cognition, and Neuroscience majors. Clusters are groupings of courses (both within the Department of Psychology and throughout other programs at the University of Michigan) that focus on a more specific area related to psychology. Students are encouraged to refer to these clusters when making academic and career goals.

The following clusters are currently available:

- Behavioral and Cognitive Neuroscience
- Business, Systems, and Organizations
- Culture, Context, and Communities
- Development, Psychopathology, and Mental Health
- Evolution, Biology, and Behavior
- Gender, Psychology, and Society
- Health, Development, and Aging
- Intergroup Relations
- Language, Thought, and Culture
- Law, Criminal Justice, and Forensics

Goals of the Major in BCN

The overall goal of Biopsychology, Cognition, and Neuroscience major is to provide a course of study that integrates the natural science components of the study of behavior and prepares students for graduate study in a number of related fields. The program integrates neuroscience, cognitive science, and evolutionary approaches to the study of behavior. This major is particularly appropriate for students interested in graduate study of human cognition, biopsychology, behavioral neuroscience, comparative animal behavior, and evolutionary psychology. A variety of research course options are available to provide the research training needed for post-graduate study. A variety of other career opportunities are also available when additional appropriate courses are chosen from other departments.

Effective Winter 2023

Exclusions:

Students who elect a major in Biopsychology, Cognition, and Neuroscience may not elect the Neuroscience or Psychology majors.

Advising

The Department has Academic and Peer Advisors (during the Fall and Winter semester only) to support students with declaring and exploring majors, confirming major progress, assisting with research and course options, as well as discussing transfer credit, academic difficulties, and graduate school options. Students can schedule an appointment in 1343 East Hall or **online**. Students are encouraged to review the **Psychology department course charts** to understand how current course offerings fit into **the major**.

Prerequisites

An introductory course (PSYCH 111, 112, or 114) with a minimum letter grade of "C"; and STATS 250 or STATS 280 with a minimum grade of C- or higher or "P".

Requirements

Minimum Credits: 32

1. **Core course requirement.** Both courses are required:
 - *Biopsychology:* PSYCH 230
 - *Cognitive Psychology:* PSYCH 240
2. **Breadth course requirement.** Choose one course from the following:
 - PSYCH 235, 250, 270, 280, 290, or 291
3. **Lab requirement.** Two courses for a minimum of 5 credits total. At least one lab must be methods-based and only one non-Psych course may be elected. Students must see an advisor to use thesis courses to meet lab requirements.
 - *Methods-Based Lab Courses:* PSYCH 300 (*if taken FA22 or later*), 302, 303, 331, 341, 342 (*if taken FA22 or later*), 366, 422, 423, 426, 429, 451, 457 (*section titled "Developmental Methods"*), PSYCH/LING 547; BIOLOGY 226; EEB 381 or 493; MCDB 306, 308, or 423
 - *Research Lab Courses:* PSYCH 226, 322, 326, 422, 423, 424, 428
 - *Thesis Research Sequence:* Honors - PSYCH 424 & 426; non-Honors - PSYCH 428 & 429
4. **Cognate course requirement.** One course selected from the following list or a Psychology 300-400 level course (lec/sem) not on the advanced course list.
One course selected from the following list:
 - ANAT 403
 - ANTHR BIO 467, (568)
 - BIOLCHEM 415
 - BIOLOGY 205, 208, 222, 225, 305
 - CHEM 351
 - COGSCI 200
 - EEB 390, 442, 450, 481, 492
 - EEB/ENVIRON 381, EEB 440/EAS/ENVIRON 422, EEB/EAS/ENVIRON 451

- EECS 281, 492
- LING 315, 516 (514)
- MCDB 307, 310, 311, 418, 422, 425, 534
- PHIL 340, 345, 450, 482
- PSYCH 406, 462, 472
- STATS 401, 406

5. **Advanced course requirement.** Four additional upper-level courses for at least 12 credits. Two courses must be at the 300-level and one course at the 400-level
- *300-level courses:* PSYCH 330, 332, 333, 334, 335, 336, 337, 338, 339, 340, 343, 344, 345, 346, 347, 348, 349, 352, 355, 356, 358, 359, 363, 365
 - *400-level courses:* PSYCH 402, 413, 414, 420, 430, 431, 432, 433, 434, 435, 436 (*only if elected W20 or later*), 438, 439, 440, 441, 442, 443, 444, 445, 446, 447, 448, 449, 454, 456 (*only if elected W20 or later*), 457 *section titled "Biology, Brain & Behavior: The Developing Child"*, 461, 463, 464, 465, 466, 468, ANTHR BIO 478/PSYCH 469, 476, 478, 531

Constraints

- 100-level courses may not be used to meet the requirements for the major or the credit requirement.
- Credit/No-credit courses may be used toward the Lab requirement, but will not count toward the total number of psychology credits required for major.
- Although some courses that are graded credit/no credit may be used to meet the lab requirement, 32 credits must be letter graded.

Residency

At least 24 credits must be completed through the Psychology department in-residence (AA Campus Department of Psychology and U-M Study Abroad). Of these 24 credits, 12 credits must be upper-division (300 or above).

Distribution Policy

No course used to fulfill a major requirement may be used toward the **LSA Distribution Requirement**. In addition, courses in the PSYCH subject area may not be used toward the Distribution Requirement.

Honors

The Honors Major in Psychology and in Biopsychology, Cognition, and Neuroscience

Psychology and Biopsychology, Cognition, and Neuroscience majors with strong academic records and an interest in research are encouraged to consider participating in the Honors Major.

The Honors Major is designed to enable advanced students to gain experience in design, conduct, and analysis of research studies. Students experience an intensive collaboration with a faculty member, and complete a significant effort to create new scientific knowledge. The Honors Major can serve as a capstone for their undergraduate studies, and as important preparation for graduate training or employment in a variety of fields.

1. **Requirements.** In addition to completing all the requirements for the major, an Honors degree designation requires having and maintaining a cumulative GPA of at least 3.4, participation in two terms of independent study Honors courses, presenting in the Annual Research Forum, and

the completion and acceptance of a written thesis describing an original research project conducted in collaboration with a faculty mentor.

2. **Faculty Partnership.** Students wishing to pursue Honors should explore their interests in research and statistics early in their academic career. The student must then identify a faculty research mentor to work in partnership on an Honors project. The research mentor can be any faculty member or research scientist holding a faculty appointment in the University. Students must have one mentor from the Psychology Department. With the mentor as a collaborator, the student will prepare a project plan and timeline for completion. Application deadlines are posted on the Psychology Honors website.
3. **Admission to the Honors Major.** A student and their faculty research mentor must apply together for admission to Honors; this includes an application and research proposal. Students are encouraged to apply the semester before their final year at the university (i.e., the end of their Junior year) to begin the Fall term of their Senior year.
4. **Courses.** Once accepted into the Honors Major, Psychology and in Biopsychology, Cognition, and Neuroscience students will be issued overrides for PSYCH 424 for the first semester of their thesis, and PSYCH 426 in their final semester. The Honors courses are graded and may be used towards the lab requirements (PSYCH 424 = experiential/research lab; PSYCH 426 = methods lab) when taken for the appropriate number of credits (see Honors major advisor for guidance). PSYCH 426 may satisfy the college upper-level writing requirement. Students may be required to take a Methods-based lab in addition to these courses, and are encouraged to meet with the Honors major advisor to plan how each course will count toward their plan.
5. **The Honors Thesis.** The required senior Honors thesis is a written report describing the design and execution of the research project conducted in collaboration with the faculty mentor. The thesis will be due one calendar month before the anticipated graduation date. All Honors theses must be prepared in American Psychological Association (APA) format, and typically run 30-40 double-spaced pages in length. One electronic and hard copy of the thesis and a submission form must be submitted.
6. **Evaluation of Thesis.** The thesis will be evaluated by two-three readers: the mentor, an outside reader (a faculty member not involved in the research project), and a possibly representative of the Honors Major. Students and mentors are responsible for suggesting a second reader prior to submitting their application. The reports of all readers will address the quality of the science reported in the thesis, as well as the quality of the written presentation. The report of the mentor will also address the role the student played in the design, execution, and interpretation of the experiments reported in the thesis, and should point out the role played by others on the project. The Honors Director will then meet to review the recommendations of the readers and decide on the appropriate level of Honors. The Honors Director will attempt to maintain uniform standards, and is not constrained by the recommendations of the readers. Based on LSA guidelines, a determination of "No Honors," "Honors," "High Honors," or "Highest Honors" is made. This determination of an Honors designation must be completed prior to the actual awarding of the degree.

Students interested in the Psychology Department Honors Major should attend an informational session and review program details on the website prior to applying.

Biopsychology, Cognition, and Neuroscience (BCN) (Major) (Fall 2021 - Fall 2022)

Effective Fall 2021

Exclusions:

Students who elect a major in Biopsychology, Cognition, and Neuroscience may not elect the Neuroscience or Psychology majors.

Advising

Students choosing psychology as a field of the major develop an approved plan for the major with a department advisor. Students then assume responsibility for completing their program of study or for making revisions which will not jeopardize their graduation. Students are, however, encouraged to consult a department advisor at any time. A department advisor must approve the original plan for the major and any exceptions to the stated requirements for the major. Students should also consult a department advisor when planning the final term's elections to ensure that all requirements for the major have been met and to secure an advisor's approval on a Major Release form.

Appointments for students are scheduled at 1343 East Hall or online through the **Department website**.

Peer Advising

Advising by Undergraduate Psychology Academic Peer Advising Program students is available at 1343 East Hall during the fall and winter terms.

Prerequisites

An introductory course (PSYCH 111, 112, or 114) with a minimum letter grade of "C"; and STATS 250 or STATS 280 with a minimum letter grade of "C-".

Requirements**Minimum Credits:** 32

1. **Core course requirement.** Both courses are required:
 - *Biopsychology:* PSYCH 230
 - *Cognitive Psychology:* PSYCH 240

2. **Breadth course requirement.** Choose one course from the following:
 - PSYCH 235, 250, 270, 280, 290, or 291

3. **Lab requirement.** Two courses for a minimum of 5 credits total. At least one lab must be methods-based and only one non-Psych course may be elected. Students must see an advisor to use thesis courses to meet lab requirements.
 - *Methods-Based Lab Courses:* PSYCH 300 (*if taken FA22 or later*), 302, 303, 331, 341, 342 (*if taken FA22 or later*), 366, 422, 423, 426, 429, 451, 457 (*section titled "Developmental Methods"*), PSYCH/LING 547; BIOLOGY 226; EEB 381 or 493; MCDB 306, 308, or 423
 - *Research Lab Courses:* PSYCH 226, 322, 326, 422, 423, 424, 428
 - *Thesis Research Sequence:* Honors - PSYCH 424 & 426; non-Honors - PSYCH 428 & 429

4. **Cognate course requirement.** One course selected from the following list or a Psychology 300-400 level course (lec/sem) not on the advanced course list.
One course selected from the following list:
 - ANAT 403
 - ANTHR BIO 467, (568)

- BIOLCHEM 415
- BIOLOGY 205, 208, 222, 225, 305
- CHEM 351
- COGSCI 200
- EEB 390, 442, 450, 481, 492
- EEB/ENVIRON 381, EEB 440/EAS/ENVIRON 422, EEB/EAS/ENVIRON 451
- EECS 281, 492
- LING 315, 516 (514)
- MCDB 307, 310, 311, 418, 422, 425, 534
- PHIL 340, 345, 450, 482
- PSYCH 462
- STATS 401, 406

5. **Advanced course requirement.** Four additional upper-level courses for at least 12 credits. Two courses must be at the 300-level and one course at the 400-level
- *300-level courses:* PSYCH 330, 332, 333, 334, 335, 336, 337, 338, 339, 340, 343, 344, 345, 346, 347, 348, 349, 352, 355, 356, 358, 359, 363, 365
 - *400-level courses:* PSYCH 402, 413, 414, 420, 430, 431, 432, 433, 434, 435, 436 (*only if elected W20 or later*), 438, 439, 440, 441, 442, 443, 444, 445, 446, 447, 448, 449, 454, 456 (*only if elected W20 or later*), 457 section titled "*Biology, Brain & Behavior: The Developing Child*", 461, 463, 464, 465, 468, ANTHRIBIO 478/PSYCH 469, 476, 478, 531

Constraints

- 100-level courses may not be used to meet the requirements for the major or the credit requirement.
- Credit/No-credit courses may be used toward the Lab requirement, but will not count toward the total number of psychology credits required for major.
- Although some courses that are graded credit/no credit may be used to meet the lab requirement, 32 credits must be letter graded.

Residency

Of the 40 overall credits (pre-requisites and courses for the major), 24 must be completed in-residence (AA Campus Department of Psychology and U-M Study Abroad). Of these 24 credits, 12 credits must be upper-division (300 or above).

Distribution Policy

No course used to fulfill a major requirement may be used toward the **LSA Distribution Requirement**. In addition, courses in the PSYCH subject area may not be used toward the Distribution Requirement.

Honors

The Honors Major in Psychology and in Biopsychology, Cognition, and Neuroscience

Psychology and Biopsychology, Cognition, and Neuroscience majors with strong academic records and an interest in research are encouraged to consider participating in the Honors Major.

The Honors Major is designed to enable advanced students to gain experience in design, conduct, and analysis of research studies. Students experience an intensive collaboration with a faculty member, and complete a significant effort to create new scientific knowledge. The Honors Major

can serve as a capstone for their undergraduate studies, and as important preparation for graduate training or employment in a variety of fields.

1. **Requirements.** In addition to completing all the requirements for the major, an Honors degree designation requires having and maintaining a cumulative GPA of at least 3.4, participation in two terms of independent study Honors courses, presenting in the Annual Research Forum, and the completion and acceptance of a written thesis describing an original research project conducted in collaboration with a faculty mentor.
2. **Faculty Partnership.** Students wishing to pursue Honors should explore their interests in research and statistics early in their academic career. The student must then identify a faculty research mentor to work in partnership on an Honors project. The research mentor can be any faculty member or research scientist holding a faculty appointment in the University. Students must have one mentor from the Psychology Department. With the mentor as a collaborator, the student will prepare a project plan and timeline for completion. Application deadlines are posted on the Psychology Honors website.
3. **Admission to the Honors Major.** A student and their faculty research mentor must apply together for admission to Honors; this includes an application and research proposal. Students are encouraged to apply the semester before their final year at the university (i.e., the end of their Junior year) to begin the Fall term of their Senior year.
4. **Courses.** Once accepted into the Honors Major, Psychology and in Biopsychology, Cognition, and Neuroscience students will be issued overrides for PSYCH 424 for the first semester of their thesis, and PSYCH 426 in their final semester. The Honors courses are graded and may be used towards the lab requirements (PSYCH 424 = experiential/research lab; PSYCH 426 = methods lab) when taken for the appropriate number of credits (see Honors major advisor for guidance). PSYCH 426 may satisfy the college upper-level writing requirement. Students may be required to take a Methods-based lab in addition to these courses, and are encouraged to meet with the Honors major advisor to plan how each course will count toward their plan.
5. **The Honors Thesis.** The required senior Honors thesis is a written report describing the design and execution of the research project conducted in collaboration with the faculty mentor. The thesis will be due one calendar month before the anticipated graduation date. All Honors theses must be prepared in American Psychological Association (APA) format, and typically run 30-40 double-spaced pages in length. One electronic and hard copy of the thesis and a submission form must be submitted.
6. **Evaluation of Thesis.** The thesis will be evaluated by two-three readers: the mentor, an outside reader (a faculty member not involved in the research project), and a possibly representative of the Honors Major. Students and mentors are responsible for suggesting a second reader prior to submitting their application. The reports of all readers will address the quality of the science reported in the thesis, as well as the quality of the written presentation. The report of the mentor will also address the role the student played in the design, execution, and interpretation of the experiments reported in the thesis, and should point out the role played by others on the project. The Honors Director will then meet to review the recommendations of the readers and decide on the appropriate level of Honors. The Honors Director will attempt to maintain uniform standards, and is not constrained by the recommendations of the readers. Based on LSA guidelines, a determination of "No Honors," "Honors," "High Honors," or "Highest Honors" is made. This determination of an Honors designation must be completed prior to the actual awarding of the degree.

Students interested in the Psychology Department Honors Major should attend an informational

session and review program details on the website prior to applying.

Bosnian, Croatian, Serbian Literature and Culture Minor

This academic minor provides students with a fundamental competence in BCS, as well as the knowledge of literary and cinema masterpieces from the region.

The BCS academic minor is a vibrant program that integrates political, architectural, and cultural knowledge with the already rich program of Eastern European studies. Its curriculum broadens the perspective needed for academics, diplomats, journalists, businesspersons, and future specialists on the history, language, literature, and politics of the Western Balkans. This program will be of particular interest to undergraduate students in concentrations like History, Political Science, Sociology, or Judaic Studies. It will also provide a necessary venue for a considerable body of students who are heritage speakers of BCS, and for those interested in the culture of the former Yugoslavia and its successor states.

This academic minor may represent an opportunity for a growing number of economics, politics, and diplomacy professionals employed in the Western Balkans, both in the government-sponsored and NGO sectors. The BCS academic minor will offer them a chance to gain linguistic competence, as well as prepare them for easier access to the BCS-speaking countries' cultural and social contexts [Serbia, Croatia, Bosnia, Montenegro, as well as Kosovo]. The courses included in the academic minor provide an excellent introduction into the political context of the unification of the Kingdom of Yugoslavia, the refusal of the Socialist Yugoslavia to become part of the Stalinist Eastern Europe, the subsequent 50 years of specific Yugoslav socialism, as well as causes and consequences of the dissolution wars that occupied the entire decade of the 1990s. Students will learn about the masterpieces produced by writers from the region, both by those who were openly critical of the political developments in specific periods, as well as those who kept their criticism limited to their work. An amazing discovery for students awaits in the film production from the region, where the level of artistic freedom and criticism of contemporary society is second to none. Ultimately, some courses address specific contemporary issues of ideology, racism, immigration, or gender and sexual discrimination, and they can be of interest even to those students who may have neither heritage links nor specific career plans connected to BCS.

Effective Winter 2013

Exclusions:

Not open to those who are electing a concentration in Russian, East European, and Eurasian Studies. Students could concurrently pursue this academic minor with one in REES with the following restrictions: (1). REES academic minors may not count any course for which Slavic is the home unit. (2). Slavic academic minors may not count REES 397 or any course for which REES is the home unit, which includes SLAVIC 395 and 396.

Advising

Students wishing to pursue an academic minor in the Department of Slavic Languages and Literatures must develop a specific plan for its completion in consultation with the department's designated advisor, Tatjana Aleksic. Appointments are scheduled online at <http://lsa.umich.edu/slavic/undergraduate-students/advising.html>

Prerequisites

BCS 131, 132, and 231, or equivalent, as determined by the departmental placement examination.

Requirements

Minimum Credits: 16

16 credits of courses, including BCS 232 (4 credits) and 12 credits in courses selected from the following two categories, with at least 6 credits from Category A and no more than 6 credits from Category B:

Category A: BCS Courses Language, Literature, and Culture. Courses in Category A encourage students to continue their language study through literary classes and individualized work with an instructor, concentrating on BCS culture, literature and history.

- BCS 350 / JUDAIC 350 / REEES 350: Legacy of the Holocaust in Yugoslav Culture: How and Why We Need to Narrate the Holocaust
- BCS 436: Modern Bosnian/Croatian/Serbian Literature
- BCS 437: Yugoslav Literature of Exile: Nowhere People-Exiles from the State of Ideology
- BCS 439: Directed Reading of Bosnian/Croatian/Serbian Literature
- BCS 450: In No Man's Land: Walls, Migrations and Human Trafficking in the Balkans and Mediterranean (W16)
- HISTORY 431: History of the Balkans Since 1878
- SLAVIC 471: Seminar in Cultural Studies of Central, Eastern and Southern Europe, *section titled "Technologies of Memory"*

Category B: Courses on Central/Eastern European Slavic Culture. Category B courses place the cultural space of the Western Balkans (the area where BCS is spoken) into a larger Central European political, cultural and historical context.

- POLISH 215: Heart of Europe: Poland Today
- SLAVIC 225: Arts and Cultures of Central Europe
- SLAVIC 245: Vampires and How to Spot Them: Blood, Lust and Power (W19)
- SLAVIC 312 / RCHUMS 312: Central European Cinema
- SLAVIC 423: Central European Literature in the Twentieth Century
- SLAVIC 490: Issues in the Cultures of Eastern Europe (appropriate topics)
- REEES 405: Topics in Russian, East European, and Eurasian Studies (appropriate topics)

Business (Minor)

The Minor in Business is designed for students who would like to complement their undergraduate major with business knowledge. The curriculum will enable students to integrate business concepts, skills, and perspectives into their declared majors and will add value to many technical and non-technical majors across campus. Facilities, clubs, corporate visits, career fairs, and career-prep

seminars will all be open to minors.

How to Earn the Minor

To successfully complete the minor, take 15 credit hours from a flexible set of core and elective courses. Each course must be completed for a grade (not pass/fail), and a minimum cumulative GPA of 2.000 is required within the minor coursework.

Core Courses

12 credits (to be completed in any order)

ACC 302 Financial Accounting or **ACC 471 Accounting Principles**

FIN 302 Making Financial Decisions or **TO 302 Managing Business Operations**

MKT 302 Marketing Management or **MO 302 Positively Leading People and Organizations**

STRATEGY 302 Business Strategy, or an action-based learning course from the following list (subject to change; consult with an advisor in the Ross Office of Undergraduate Programs):

Approved Action-Based Learning Courses:

- **BA 453 Action Learning Project** (Seniors only)
- **ES 395 Entrepreneurial Management**
- **ES 445/STRATEGY 445 Base of the Pyramid: Business Innovation for Solving Society's Problems**
- **MKT 401 Marketing Management II** (Seniors only)
- **MO 355 Magnify Immersion Program**
- **MO 463 Leading Creativity and Innovation** (Seniors only)
- **STRATEGY 492 Dynamic Capabilities Through Corporate Development** (Seniors only)
- **TO 465 Business Systems Consulting** (Seniors only)
- **TO 482 Projects in Operations, Purchasing, and Supply Chain Management**

Electives

3 credits (minimum)

The Business Minor requires that you complete at least three elective business credits at the 300 or 400 level taught through the Ross School of Business. ES 250 or additional business minor core courses will also fulfill this requirement. You can choose from a wide range of topics that align with your specific career interests. It may be helpful to consult with an advisor to make the best choices for you; note that ES 310 and any business transfer credit (including departmental credit) will not meet the elective requirement for the Minor

Corequisites

To be completed before graduation

You must complete ECON 101 Principles of Economics before graduation.

- AP credit will NOT fulfill this requirement.
- IB, A-level, or transfer credit for the exact U-M course equivalent (not departmental credit, e.g., ECON 101X) will count for this requirement.
- ECON 101 can be completed for a letter grade or as pass/fail.
- ECON 401 will also fulfill the ECON 101 corequisite requirement if completed with a letter grade of C or higher.

Only students who apply and are accepted to the minor are eligible to have the Business

Minor listed on their university record.

Cellular and Molecular Biomedical Science Major

The CMBS program is designed for students enrolled in the College of Literature, Science and the Arts. The program is jointly administered by the Molecular, Cellular, and Developmental Biology (MCDB) Department (College of LS&A) and the Biomedical Engineering (BME) Department (College of Engineering). A matriculating student will receive the B.S. in Cellular and Molecular Biomedical Science (CMBS) from the College of LS&A upon completion of all undergraduate program requirements, and is eligible to apply to the M.S. in Biomedical Engineering (BME) program in the College of Engineering.

Students will be admitted to the CMBS program only after completing the major prerequisites. Admission to the program must be approved by advisors from the Departments of MCDB and BME.

Declaration requirements and application can be found here: https://umich.qualtrics.com/jfe/form/SV_1GnYv0KSNRgPaG9

Effective Fall 2019

Exclusions:

Students who elect a major in CMBS may not elect the following majors: Biology; Biology, Health, and Society (formerly known as General Biology); Cellular and Molecular Biomedical Science (formerly known as CMB:BME); Molecular, Cellular, and Developmental Biology (MCDB - formerly known as Cellular & Molecular Biology or CMB); Microbiology; Plant Biology; Biochemistry; Biomolecular Science; or Neuroscience. They may also not elect a minor in Biology; Plant Biology; Chemistry; or Biochemistry.

Advising

Upon acceptance into the program, each student will be assigned two advisors, one in MCDB and one in Biomedical Engineering.

Student course selections must be approved by both advisors each term. Students are advised by a combination of Undergraduate Biology Office staff and faculty department advisors. Advising topics include investigating majors, declaring a major, course planning, research and honors, major releases, graduate school and career advice. Students who are interested in the CMBS major should consult a general advisor during the freshman year, and are strongly encouraged to meet with a department advisor early in their academic career, but no later than the second term of their sophomore year. To make an appointment, go to the Program in Biology website at <http://www.lsa.umich.edu/biology/>.

MS phase

A student may apply to the M.S. phase during the fourth year, when the student has achieved senior standing. At this time, the student must formally apply to the Rackham Graduate School for

admission to the M.S. program in Biomedical Engineering. Students with a 3.2 or higher cumulative GPA in the B.S. program in CMBS and who are judged by both academic advisors as making timely progress towards the B.S. degree will be admitted to the M.S. phase. Students will be charged graduate tuition for only one academic year. Students are never jointly enrolled in LSA and Rackham; however, students can begin to take graduate BME courses as undergraduates with the permission of the instructor.

Please see the Rackham website for specific policies:
<https://rackham.umich.edu/navigating-your-degree/sugs-information/>

Grade Policies

Total Credits and GPA Requirement for CMBS:

Minimum 46 cr. in Major

Minimum 3.2 Cumulative GPA is required for admission to the M.S. program.

Minimum 2.0 GPA in Major

Major GPA is calculated from all mandatory prerequisites, all courses used for major requirements (including cognates), and all courses in BIOLOGY, EEB, and MCDB.

The introductory biology sequence must be taken for a grade. Prerequisites other than introductory biology may be taken pass/fail; however, it is not recommended, especially for chemistry.

Remember that at least a C- must be earned to pass a course taken pass/fail.

Courses used for the major may not be taken pass/fail.

Prerequisites

Introductory Biology Sequence:

Choose Sequence A, B, or C:

A. BIOLOGY 171, BIOLOGY 172 or 174, & BIOLOGY 173; or

B. BIOLOGY 195 (AP/IB) & BIOLOGY 173; or

C. BIOLOGY 191 (transfer credit), BIOLOGY 192, & BIOLOGY 173

Chemistry Sequence:

- CHEM 210 & 211; and,
- CHEM 215 & 216

Quantitative Analysis Sequence:

- CALCULUS I: MATH 115, 120 (AP), or 185; and
- CALCULUS II: MATH 116, 121 (AP), 156, or 186

Physics Sequence:

- Physics I (lecture & lab): One of the following combinations: PHYSICS 125 & 127; 135 & 136; 140 & 141; 150 & 151 (*only if elected F21 or later*) or 160 & 161. PHYSICS 139 (AP) will also fulfill this requirement.
- Physics II (lecture & lab): One of the following combinations: PHYSICS 126 & 128; 235 & 236; 240 & 241; 250 & 251 (*only if elected F21 or later*) or 260 & 261. PHYSICS 239 (AP) will also fulfill this requirement.

Undergraduate Engineering:

- ENGR 101 or EECS 183

Requirements

Minimum Credits: 46

Biology Core Courses:

- Biology Elective: Choose one course from the following: Any specific BIOLOGY, EEB, or

MCDB course at the 200-, 300-, or 400-level (EXCEPT BIOLOGY 200, 201, 241, or 299; EEB 300, 301, 302, 399, or 499; MCDB 300, 301, 302, 360 360 (*if elected WN21 or later*), 399, 412, 460 (*if elected WN21 or later*), 461 (*if elected WN21 or later*), or 499)

- Genetics: BIOLOGY 305
- Biochemistry: Choose from: MCDB 310, BIOLCHEM 415, or CHEM 351
- Genetics Laboratory: MCDB 306 **or** Cell and Molecular Biology Laboratory: MCDB 429*
- Molecular Biology: MCDB 427*
- Cell Biology: MCDB 428* or BIOMEDE 418*
- Advanced MCDB Course: Choose one course from: MCDB 400 (3 cr. min./max.), 401, 402, 403, 404, 405, 406, 408, 409, 410, 411, 415, 416, 417, 418, 419, 420, 421, 422, 423, 425, 426, 430, 433, 434 (*only if elected FA19 or later*), 435, 436, 440, 441, 444, 447 (*only if elected FA19 or later*), 448, 450, 451 (*only if elected FA19 or later*), 452, 453, 454, 455, 456, 457, 458, 459, 462, 463, 464 (*Only when elected FA20 or later*), 465 (*Only when elected FA20 or later*), 472 (*Only when elected FA20 or later*), 469, 471, 489, 589

**See Rackham policies on transfer and double-counting, and consult with the BME Master's Program regarding graduate requirements*

Engineering Core Courses:

- Calculus III: Math 215
- Differential Equations: Math 216
- Biophysical Chemistry & Thermodynamics: BIOMEDE 221
- Biomechanics: BIOMEDE 231
- Bioreaction Engineering & Design: BIOMEDE 321
- Biofluid Mechanics: BIOMEDE 331
- Biomedical Engineering Design: BIOMEDE 350

Constraints

- Prerequisites, introductory science courses, and non-specific (departmental) transfer courses are excluded from the 46 cr. required for the major
- A maximum of three credits of independent research (MCDB 400) may be counted toward the major. Three credits must be completed in one term to meet the Advanced MCDB Course requirement.

Distribution Policy

No course used to fulfill a major requirement may be used toward the **LSA Distribution Requirement**. In addition, courses in the BIOLOGY, EEB, MCDB, and MICRBIOL subject areas may not be used toward the Distribution Requirement.

Honors

The Program in Biology administers an Honors Program to train students to conduct independent research in the biological sciences. Participating in the honors program allows students to develop their research skills, deepen their understanding of the field, and form productive relationships with faculty and other students. The achievement is noted on the diploma and official transcript.

In addition to completing all the requirements for the major, an honors degree requires:

1. an overall **and** major GPA of at least 3.4, and
2. the completion of a significant piece of independent research that is
 - reported in an honors thesis and
 - presented in a public forum.

For more information, consult the Program in Biology Honors Program Information page or a Program in Biology advisor.

Chemical Measurement Science Minor

The Chemical Measurement Science minor provides a concentrated exposure to analytical chemistry that is appropriate across a wide variety of scientific areas.

The curricula in Chemistry serve those preparing for careers in chemistry, biochemistry, medicine, chemical engineering, pharmacy, and allied fields as well as those seeking a general knowledge of chemistry as part of a liberal arts education. Beyond the first-year courses, there is an emphasis on development of technical knowledge and laboratory experience needed in chemistry and related scientific fields. The undergraduate majors prepare students for work in research and testing laboratories, as well as for business positions in which a chemistry background is desirable. Graduate work is necessary for those planning to do college and university teaching or industrial research.

Effective Winter 2023

Exclusions:

The Chemical Measurement Science Academic Minor is not open to students concentrating in Biochemistry, Biomolecular Science, Interdisciplinary Chemical Sciences, or Chemistry.

Advising

Students wishing to pursue a minor offered by the Chemistry Department must develop a specific plan for its completion in consultation with the Department's designated advisor. **Chemistry, Chemical Physics, Polymer Chemistry,** and Chemical Measurement Science minors are arranged in consultation with any Chemistry department advisor, while **Biochemistry** minors are arranged in consultation with any Biochemistry advisor. Information about scheduling advising appointments is available from the Department's **website**.

Grade Policies

The department strongly recommends that a student earn a grade of at least C– in all CHEM courses and mathematics, physics, and biology courses that are prerequisite for subsequent elections. A major program grade point average of at least 2.0 is required; this includes chemistry courses, mathematics, physics, and biology prerequisites, and advanced electives that are part of a major plan. Prerequisites must be taken for a grade. Students must request any change in a chemistry course grade within the first fifteen University Business days of the first full term following the term in which the disputed grade was issued.

Prerequisites

- MATH 115 (or 120), or equivalent;
- PHYSICS 125, 139, 140, 150, 160, or equivalent.

Requirements

Minimum Credits: 18

1. *Core:* CHEM 210/211, CHEM 260 or 370, CHEM 241/242, CHEM 447.
2. *Electives:* CHEM 483*, CHEM 545*.
*Although prerequisites are not enforced, students who elect CHEM 483 or 545 should consider taking, or having taken, advanced physical chemistry beyond the CHEM 260/370 level.

Chemical Measurement Science (Minor) (Fall 2015 - Fall 2022)

Effective Fall 2015

Exclusions:

The Chemical Measurement Science Academic Minor is not open to students concentrating in Biochemistry, Biomolecular Science, Interdisciplinary Chemical Sciences, or Chemistry.

Advising

Students wishing to pursue a minor offered by the Chemistry Department must develop a specific plan for its completion in consultation with the Department's designated advisor. **Chemistry, Chemical Physics, Polymer Chemistry,** and Chemical Measurement Science minors are arranged in consultation with any Chemistry department advisor, while **Biochemistry** minors are arranged in consultation with any Biochemistry advisor. Information about scheduling advising appointments is available from the Department's **website**.

Grade Policies

The department strongly recommends that a student earn a grade of at least C– in all CHEM courses and mathematics, physics, and biology courses that are prerequisite for subsequent elections. A major program grade point average of at least 2.0 is required; this includes chemistry courses, mathematics, physics, and biology prerequisites, and advanced electives that are part of a major plan. Prerequisites must be taken for a grade. Students must request any change in a chemistry course grade within the first fifteen University Business days of the first full term following the term in which the disputed grade was issued.

Prerequisites

- MATH 115 (or 120), or equivalent;
- PHYSICS 135, 140, or equivalent.

Requirements

Minimum Credits: 18

1. *Core:* CHEM 210/211, CHEM 260 or 370, CHEM 241/242, CHEM 447.
2. *Electives:* CHEM 480*, CHEM 545*.
*Although prerequisites are not enforced, students who elect CHEM 480 or 545 should consider taking, or having taken, advanced physical chemistry beyond the CHEM 260/370 level.

Chemical Physics Minor

The Chemical Physics academic minor provides a concentrated exposure to physical chemical

principles.

The curricula in Chemistry serve those preparing for careers in chemistry, biochemistry, medicine, chemical engineering, pharmacy, and allied fields as well as those seeking a general knowledge of chemistry as part of a liberal arts education. Beyond the first-year courses, there is an emphasis on development of technical knowledge and laboratory experience needed in chemistry and related scientific fields. The undergraduate majors prepare students for work in research and testing laboratories, as well as for business positions in which a chemistry background is desirable. Graduate work is necessary for those planning to do college and university teaching or industrial research.

Effective Winter 2023

Exclusions:

The Chemical Physics Academic Minor is not open to students concentrating in Biochemistry, Biomolecular Science, Biophysics, Interdisciplinary Chemical Sciences or Chemistry.

Students electing a minor within the Department of Chemistry may only elect ONE of the five minors offered by the Department.

Advising

Students wishing to pursue a minor offered by the Chemistry Department must develop a specific plan for its completion in consultation with the Department's designated advisor. Chemistry, Chemical Physics, Polymer Chemistry, and Chemical Measurement Science minors are arranged in consultation with any Chemistry department advisor, while Biochemistry minors are arranged in consultation with any Biochemistry advisor. Information about scheduling advising appointments is available from the Department's website.

Grade Policies

The department strongly recommends that a student earn a grade of at least C– in all CHEM courses and mathematics, physics, and biology courses that are prerequisite for subsequent elections. A major program grade point average of at least 2.0 is required; this includes chemistry courses, mathematics, physics, and biology prerequisites, and advanced electives that are part of a major plan. Prerequisites must be taken for a grade. Students must request any change in a chemistry course grade within the first fifteen University Business days of the first full term following the term in which the disputed grade was issued.

Prerequisites

- MATH 215, or equivalent;
- PHYSICS 235, 240, 250, 260, or equivalent.

Requirements

Minimum Credits: 18

At least 18 credits of courses as follows: CHEM 130,* CHEM 210/211, CHEM 260 or CHEM 370, CHEM 461, CHEM 462, CHEM 463 or 453.

*Students who do not place into CHEM 210 are strongly recommended to take CHEM 130. Neither CHEM 130, nor AP credits earned for CHEM 130, count toward the academic minor.

Chemical Physics (Minor) (Fall 2012 - Fall 2022)

Effective Fall 2012

Exclusions:

The Chemical Physics Academic Minor is not open to students concentrating in Biochemistry, Biomolecular Science, Biophysics, Interdisciplinary Chemical Sciences or Chemistry.

Students electing a minor within the Department of Chemistry may only elect ONE of the five minors offered by the Department.

Advising

Students develop a plan for the major in consultation with a program advisor. Those interested in a B.S. degree with a major in Chemical Science (120 credits) or the specialized program leading to the Bachelor of Science in Chemistry (124 credits) are urged to consult a program advisor during the freshman and/or sophomore years. Prospective majors are advised that further study in chemistry requires adequate performance in early chemistry courses (preferably B- or better) as well as in the mathematics and physics prerequisites. Students interested in an Honors degree should see the Chemistry Honors advisor. Appointments are scheduled online at <http://lsa.umich.edu/chem/undergraduates/advising.html>. Students interested in the joint program with the College of Engineering should make an appointment with **John Stratman** [Academic Advising Center, 1255 Angell Hall, 734.764.0332] and then make an appointment to see a chemistry department advisor online.

Grade Policies

The department strongly recommends that a student earn a grade of at least C- in all CHEM courses and mathematics, physics, and biology courses that are prerequisite for subsequent elections. A major program grade point average of at least 2.0 is required; this includes chemistry courses, mathematics, physics, and biology prerequisites, and advanced electives that are part of a major plan. Prerequisites must be taken for a grade. Students must request any change in a chemistry course grade within the first fifteen University Business days of the first full term following the term in which the disputed grade was issued.

Prerequisites

MATH 215, or equivalent; PHYSICS 235, 240, or equivalent.

Requirements

Minimum Credits: 18

At least 18 credits of courses as follows: CHEM 130,* CHEM 210/211, CHEM 260 or CHEM 370, CHEM 461, CHEM 462, CHEM 463 or 453.

*Students who do not place into CHEM 210 are strongly recommended to take CHEM 130. Neither CHEM 130, nor AP credits earned for CHEM 130, count toward the academic minor.

Chemical Science Major

This major exposes students to all sub-disciplines in Chemistry, but provides more flexibility in

course selection than the **BS Chemistry** degree. Undergraduate research is an option, but not a requirement for this degree. The major in Chemical Sciences is directed toward students who have interdisciplinary interests and are not planning to either attend a traditional graduate program in chemistry or to find immediate employment as a Chemist. Instead, this degree is geared towards students who plan to attend graduate school in an interdisciplinary field where chemical knowledge will be beneficial, and this should also be an attractive option to students that plan to pursue post-graduate degrees in the Health Sciences.

The curricula in Chemistry serve those preparing for careers in chemistry, biochemistry, medicine, chemical engineering, pharmacy, and allied fields as well as those seeking a general knowledge of chemistry as part of a liberal arts education. Beyond the first-year courses, there is an emphasis on development of technical knowledge and laboratory experience needed in chemistry and related scientific fields. The undergraduate majors prepare students for work in research and testing laboratories, as well as for business positions in which a chemistry background is desirable. Graduate work is necessary for those planning to do college and university teaching or industrial research.

BS Major in Chemical Science: This degree also exposes students to all sub-disciplines in Chemistry, but provides more flexibility in course selection than the BS Chemistry degree. Undergraduate research is an option, but not a requirement for this degree. The BS Major in Chemical Sciences is directed towards students who have interdisciplinary interests and are not planning to either attend a traditional graduate program in chemistry or to find immediate employment as a Chemist. Instead, this degree is geared towards students who plan to attend graduate school in an interdisciplinary field where chemical knowledge will be beneficial, and this should also be an attractive option to students that plan to pursue post-graduate degrees in the Health Sciences.

It is strongly recommended that students who are thinking of degrees in chemistry should arrange an appointment with a Chemistry advisory via the online advising system as soon as possible, preferably before the end of the freshman year but certainly before the end of the sophomore year. The online appointment scheduling system can be found here:
<http://www.umich.edu/~michchem/undergrad/index.html>.

Effective Winter 2022

Exclusions:

Students who elect a major in Chemical Science may not elect the following major: Interdisciplinary Chemical Sciences. They may also not elect any of the Chemistry minors.

Advising

Students develop a plan for the major in consultation with a program advisor. Those interested in a B.S. degree with a major in Chemical Science (120 credits) or the specialized program leading to the *Bachelor of Science* in Chemistry (124 credits) are urged to consult a program advisor during the freshman and/or sophomore years. Prospective majors are advised that further study in chemistry requires adequate performance in early chemistry courses (preferably B- or better) as well as in the mathematics and physics prerequisites. Students interested in an Honors degree should see the Chemistry Honors advisor. Appointments are scheduled online at <http://lsa.umich.edu/chem/undergraduates/advising.html>. Students interested in the joint program

with the College of Engineering should make an appointment with John Stratman [Academic Advising Center, 1255 Angell Hall, 734.764.0332] and then make an appointment to see a chemistry department advisor online.

Grade Policies

The department strongly recommends that a student earn a grade of at least C– in all CHEM courses and mathematics, physics, and biology courses that are prerequisite for subsequent elections. A major program grade point average of at least 2.0 is required; this includes chemistry courses, mathematics, physics, and biology prerequisites, and advanced electives that are part of a major plan. Prerequisites must be taken for a grade. Students must request any change in a chemistry course grade within the first fifteen University Business days of the first full term following the term in which the disputed grade was issued.

Prerequisites

- CHEM 210/211, 215, 216, 241/242, and 260 or [CHEM 230 and 261]
- PHYSICS [135/136 or 140/141 or 150/151 or 139] and [235/236 or 240/241 or 250/251 or 239]
- MATH 115 (or 120), 116 (or 121), or equivalent sequence.
- CHEM 262; OR MATH 215 and one of MATH 214, 216 or 217, or equivalent

Requirements

Minimum Credits: 24

- CHEM 302 or 303
- Two of CHEM 351, 402, 419, 420
- Two of CHEM 447, 461, [463 or 453]
- CHEM 462 (Note: CHEM 462 is to be taken concurrent with CHEM 461, 463 or 452).
- Two different courses from the following CHEM 352, 399 (taken over 2 semesters), 436, 482, 483 to total a minimum of 5 credits.
- Additional 3-credit upper-level elective lecture

Distribution Policy

No course used to fulfill a major requirement may be used toward the LSA Distribution Requirement. In addition, courses in the CHEM subject area may not be used toward the Distribution Requirement.

Honors

Students may obtain Honors in Chemical Science by successfully completing all courses required for the Chemical Science major with an overall GPA of 3.4 and a major GPA of 3.4. In addition, students obtaining Honors must complete one additional upper-level Chemistry elective lecture (chosen in consultation with the department advisor), complete four credits elected over at least two terms of CHEM 399 and write a thesis based on their undergraduate research.

Students must register for one credit of CHEM 499 in the term in which they plan to submit their thesis.

Teaching Certificate

Those seeking a B.S. with a **teaching certificate in Chemistry** must fulfill departmental as well as **School of Education** requirements. Students who plan to earn a teaching certificate with a teaching major or minor in Chemistry should contact the School of Education Office of Academic Services.

Bachelor of Science in Chemistry (B.S.Chem.)

The curriculum leading to the degree of Bachelor of Science in Chemistry has been planned for students preparing for professional work in chemistry, biochemistry, or related fields. The major in chemical sciences entails a lesser degree of specialization than that leading to the B.S.Chem.

The B.S.Chem. is the most rigorous degree in pure chemistry offered by the department, and it should be the degree of choice for students who plan to pursue Ph.D. studies in one of the traditional sub-areas of the field (organic chemistry, inorganic chemistry, physical chemistry, and analytical chemistry) or students who plan to seek careers in the chemical industry. Students are required to take several lecture and lab courses in all of these core areas and are also required to complete four credits (two semesters) of undergraduate research. The program leading to Honors in chemistry is available to qualified students.

In addition, there is a five-year joint degree program with the College of Engineering that leads to a B.S.Chem. and a Bachelor of Science in Engineering (Chemical Engineering).

It is strongly recommended that students who are thinking of degrees in chemistry should arrange an appointment with a chemistry advisor via the online appointment scheduling system as soon as possible, preferably before the end of their freshman year but certainly before the end of their sophomore year.

Degree Program

A minimum program leading to this degree is given in the following list of courses and requirements.

Exclusions:

Students who elect the B.S.Chem. may not elect the following majors: Interdisciplinary Chemical Sciences or Chemical Science. They may also not elect any of the Chemistry minors.

A Bachelor of Science in Chemistry degree requires competency in each major area of knowledge and a deep understanding of chemistry. Each student is required also to achieve competency in the use of the English language, to acquire second-year college-level proficiency in a language other than English, to receive credit for an approved course addressing questions on race and ethnicity, and to fulfill the quantitative reasoning requirement. The B.S.Chem. degree requires 60 credits of approved courses in the physical and natural sciences and/or mathematics.

Chemistry Degree Credit and GPA Requirements

A student must complete a minimum of 124 credits with a cumulative GPA of 2.0 (C) or better. This includes chemistry courses, mathematics and physics prerequisites, and advanced electives that are part of the degree program.

Special Departmental Policies (effective Fall 2015)

The department strongly recommends that a student earn a grade of at least C– in all CHEM courses and mathematics, physics, and biology courses that are prerequisite for subsequent elections. A major program grade point average of at least 2.0 is required; this includes chemistry courses, mathematics, physics, and biology prerequisites, and advanced electives that are part of a major plan. Prerequisites must be taken for a grade. Students must request any change in a chemistry course grade within the first 15 University business days of the first full term following the term in which the disputed grade was issued.

Prerequisites to the Program (*Must be taken for a grade*)

- CHEM courses through 215, 216, CHEM 241/242, and CHEM 260 or 370
- PHYSICS [135/136 or 140/141] and [235/236 or 240/241]
- MATH 115 (or 120), and MATH 116 (or 121)
- CHEM 262 (or MATH 215, and MATH 216 or 217)

PHYSICS 240 or 235 and MATH 215 are prerequisites for CHEM 461, and students should, whenever possible, complete both of these before their junior year.

Chemistry Degree Course Requirements

CHEM 302 or 303, 402, 447, 461, 462, 463, 482, and 483, plus four credits of CHEM 399 taken over at least two terms, as well as one advanced lecture course in chemistry.

Honors Plan in Chemistry

The B.S.Chem. degree is the basis of the Honors degree in chemistry. Maintenance of a satisfactory GPA (3.4) in the courses required for the degree program, including prerequisites, and satisfactory completion of an Honors thesis (CHEM 499) based on the research done in CHEM 399 are required for Honors. All students, whatever their program, who are interested in an Honors degree should see the chemistry Honors advisor (Room 1500 Chemistry) for approval for participation in the Honors Program in chemistry.

Chemistry (Major) (Winter 2023 - Fall 2023)

Effective Winter 2023

Exclusions:

Students who elect a major in Chemistry may not elect the following majors: Interdisciplinary Chemical Sciences, BS degree in Chemistry. They may also not elect any of the Chemistry minors.

Advising

Students develop a plan for the major in consultation with a program advisor. Prospective majors are advised that further study in chemistry requires adequate performance in early chemistry courses (preferably B- or better) as well as in the mathematics and physics prerequisites. Students interested in an Honors degree should see the Chemistry Honors advisor. Appointments are scheduled online at <http://lsa.umich.edu/chem/undergraduates/advising.html>. Students interested in the joint program with the College of Engineering should make an appointment with Newnan Advising [Academic Advising Center, 1255 Angell Hall, 734.764.0332] and then make an appointment to

see a Chemistry Department advisor online.

Grade Policies

The department strongly recommends that a student earn a grade of at least C– in all CHEM courses and mathematics, physics, and biology courses that are prerequisite for subsequent elections. A major program grade point average of at least 2.0 is required; this includes chemistry courses, mathematics, physics, and biology prerequisites, and advanced electives that are part of a major plan. Prerequisites must be taken for a grade. Students must request any change in a chemistry course grade within the first fifteen University Business days of the first full term following the term in which the disputed grade was issued.

Prerequisites

- CHEM 125/126 and 130 OR 5 credits of Chemistry electives for students who place into Chem 210 and do not take Chem 125/6 and 130 or who have AP credit for CHEM 125/126 and 130;
- PHYSICS [140/141 or 150/151] and [240/241 or 250/251];
- MATH 115 (or 120), 116 (or 121), or equivalent sequence;
- CHEM 262; OR MATH 215 and one of MATH 216 or 217, or equivalent.

Requirements

Minimum Credits: 40

Introductory Courses

- CHEM 210, 211, 241, 242, [(CHEM 230 and 261) OR CHEM 260], CHEM 302 OR CHEM 303

Advanced Lecture Courses

- Three of the following: CHEM 215, 351, 402, 447; CHEM 461 OR CHEM 463

Advanced Laboratory Courses

- Three of the following: CHEM 216, 436, 462, 482, 483

Electives (*to total 40 core credits*)

Elective courses are to be selected with a Chemistry advisor. Students should elect chemistry courses (CHEM) numbered 300-level or higher, which may include undergraduate research (399/499) + honors thesis. No more than 4 credits of 399/398 may be used. An elective cannot be selected as one of the advanced lecture or lab courses to fulfill an above requirement.

- CHEM 351, 352, 353, 399, 402, 419, 420, 421, 425, 436, 447, 451, 453, 455, 461, 462, 463, 465, 474, 482, 483, 499

Distribution Policy

No course used to fulfill a major requirement may be used toward the **LSA Distribution Requirement**. In addition, courses in the CHEM subject area may not be used toward the Distribution Requirement.

Honors

Students may obtain Honors in Chemistry by successfully completing all courses required for the Chemistry major with an overall GPA of 3.4 or above. In addition, students obtaining Honors must write a thesis based on their undergraduate research (at least 4 credits of CHEM 399 over at least two semesters). Students must register for one credit of CHEM 499 in the term in which they plan to submit their thesis.

Teaching Certificate

Those seeking a B.S. with a teaching certificate in Chemistry must fulfill departmental as well as School of Education requirements. Students who plan to earn a teaching certificate with a teaching major or minor in Chemistry should contact the School of Education Office of Academic Services.

Chemistry Minor

The Chemistry minor provides a broad and general exposure to the traditional areas of the chemical sciences.

Effective Winter 2023

Exclusions:

The Chemistry Academic Minor is not open to students concentrating in Biochemistry, Biomolecular Science, Interdisciplinary Chemical Sciences, Chemistry, Cell and Molecular Biology, Biology, General Biology, Neuroscience, Ecology and Evolutionary Biology, Plant Biology, and Microbiology

Students electing a minor within the Department of Chemistry may only elect ONE of the five minors offered by the Department.

Advising

Students develop a plan for the major in consultation with a program advisor. Those interested in a B.S. degree with a major in Chemical Science (120 credits) or the specialized program leading to the *Bachelor of Science in Chemistry* (124 credits) are urged to consult a program advisor during the freshman and/or sophomore years. Prospective majors are advised that further study in chemistry requires adequate performance in early chemistry courses (preferably B- or better) as well as in the mathematics and physics prerequisites. Students interested in an Honors degree should see the Chemistry Honors advisor. Appointments are scheduled online at www.lsa.umich.edu/chem/undergraduate/advising. Students interested in the joint program with the College of Engineering should make an appointment [Academic Advising Center, 1255 Angell Hall, 734.764.0332] and then make an appointment to see a chemistry department advisor online.

Grade Policies

The department strongly recommends that a student earn a grade of at least C- in all CHEM courses and mathematics, physics, and biology courses that are prerequisite for subsequent elections. A major program grade point average of at least 2.0 is required; this includes chemistry courses, mathematics, physics, and biology prerequisites, and advanced electives that are part of a major plan. Prerequisites must be taken for a grade.

Prerequisites

- MATH 115 (or 120), or equivalent;
- PHYSICS 125,139, 140, 150, 160, or equivalent.

Requirements

Minimum Credits: 18

1. *Core:* CHEM 130* & CHEM 210/211.
2. *Electives:* CHEM 215/216, CHEM 241/242, CHEM 260 (or CHEM 261 and CHE 330), CHEM 302 or 303, CHEM 419 or 420, CHEM 402, CHEM 461, CHEM 482.

*Students who do not place into CHEM 210 are strongly recommended to take CHEM 130.

Constraints

Neither CHEM 130, nor AP credits earned for CHEM 130, count toward the minor.

Chemistry (Minor) (Fall 2019 - Fall 2022)

Effective Fall 2019

Exclusions:

The Chemistry Academic Minor is not open to students concentrating in Biochemistry, Biomolecular Science, Interdisciplinary Chemical Sciences, Chemistry, Cell and Molecular Biology, Biology, General Biology, Neuroscience, Ecology and Evolutionary Biology, Plant Biology, and Microbiology

Students electing a minor within the Department of Chemistry may only elect ONE of the five minors offered by the Department.

Advising

Students develop a plan for the major in consultation with a program advisor. Those interested in a B.S. degree with a major in Chemical Science (120 credits) or the specialized program leading to the *Bachelor of Science in Chemistry* (124 credits) are urged to consult a program advisor during the freshman and/or sophomore years. Prospective majors are advised that further study in chemistry requires adequate performance in early chemistry courses (preferably B- or better) as well as in the mathematics and physics prerequisites. Students interested in an Honors degree should see the Chemistry Honors advisor. Appointments are scheduled online at www.lsa.umich.edu/chem/undergraduate/advising. Students interested in the joint program with the College of Engineering should make an appointment with John Stratman [Academic Advising Center, 1255 Angell Hall, 734.764.0332] and then make an appointment to see a chemistry department advisor online.

Grade Policies

The department strongly recommends that a student earn a grade of at least C- in all CHEM courses and mathematics, physics, and biology courses that are prerequisite for subsequent elections. A major program grade point average of at least 2.0 is required; this includes chemistry courses, mathematics, physics, and biology prerequisites, and advanced electives that are part of a major plan. Prerequisites must be taken for a grade. Students must request any change in a chemistry course grade within the first fifteen University Business days of the first full term following the term in which the disputed grade was issued.

Prerequisites

- MATH 115 (or 120), or equivalent;
- PHYSICS 135, 140, or equivalent.

Requirements

Minimum Credits: 18

1. *Core:* CHEM 130* & CHEM 210/211.
2. *Electives:* CHEM 215/216, CHEM 241/242, CHEM 260 (or CHEM 261 and CHE 330), CHEM 302 or 303, CHEM 419 or 420, CHEM 402, CHEM 461, CHEM 482.

*Students who do not place into CHEM 210 are strongly recommended to take CHEM 130.

Constraints

Neither CHEM 130, nor AP credits earned for CHEM 130, count toward the minor.

Classical Archaeology Major

A major in Classical Studies equips its students with the knowledge, skills, intellectual agility, and different points of view to pursue a variety of careers, whether the student's next step is entry into the workforce or further education in professional or graduate school. Faculty advisers work with students to develop a program of study within their major and to articulate the connections between their education and career goals and aspirations.

Learning Goals for All Majors

Every major in Classical Studies asks students to:

- explore the many facets of the ancient world—its history, societal and cultural practices, and intellectual endeavors (e.g., law, religion, political theory and practice, art and material objects, language and literature, philosophy, science)
- recognize and interpret the complexities of the ancient world, including such problematic aspects as slavery, gender inequality, and various types of bias
- understand different critical perspectives
- ask questions and engage in critical thinking, especially analysis and synthesis of information, ideas, and situations to solve complex problems
- work with a variety of primary sources, both textual (in the original language or translation) and material (aided by the resources of the Kelsey Museum and the papyrology collection)
- make inferences from the fragmentary and incomplete record of the past
- communicate complex ideas and persuasive arguments in writing and oral presentations
- conduct research using primary and secondary sources, including both traditional and digital media

The Classical Studies Department encourages its students to participate in the wide array of events and activities in which faculty and graduate students are involved, including UROP projects, student clubs, lectures, brown bag presentations, and reading groups. Students are also encouraged to study abroad.

Because many Classical Studies courses are small, majors have opportunities to work closely with their professors, and professors get to know their students well.

Classical Archaeology

In addition to the learning goals stated above, the Classical Archaeology major asks students to:

- examine the diverse material and visual record of the ancient Mediterranean world
- learn practical, theoretical, and scientific methods in archaeology
- acquire hands-on experience through class projects, collaboration with the Kelsey Museum of Archaeology, and/or participation in archaeological fieldwork

Courses in Classical Archaeology generally do not require knowledge of Greek or Latin.

Effective Winter 2023

Advising

Students interested in the Department's majors in Greek (Ancient), Latin, Classical Languages and Literatures, Classical Archaeology, Classical Civilization or Greek (Modern) major should check with the Department office for the name of the current advisor. Students interested in obtaining Teacher Certification in Latin should see Professor Deborah Ross.

The Department recommends that interested students see the department advisors as early as possible in order to plan their programs and avoid unnecessary scheduling conflicts.

Students wishing to pursue a minor in Classical Studies must develop a specific plan for its completion in consultation with the Department's designated advisor.

Grade Policies

The department requires that a student earn a grade of at least C– in all *language* courses which are prerequisite for subsequent elections. A student should repeat any *language* course in which a D+ or lower grade is earned and which serves as a prerequisite to other courses which are to be elected. A grade of D+ signifies some achievement but denotes too weak a foundation for subsequent courses.

Prerequisites

None.

Requirements

Minimum Credits: 24

Requires a minimum of 8 courses (at least 3 credits each) including:

1. Two of the following introductory courses: CLARCH 220, 221, 222, 323
2. One course in either Greek or Roman history or civilization (200-level or above)
3. Three upper-level courses (numbered 325 and above) in the field of Classical Archaeology
4. Third-term proficiency in Greek or Latin (usually met by successful completion of GREEK 301 or the equivalent, or LATIN 231 or the equivalent). Students who plan to fulfill this requirement in other ways should speak to the undergraduate advisor.
5. At least one additional relevant course at the 400 level.

Students interested in possibly continuing in the field of Classical Archaeology should discuss their plans with the undergraduate advisor as early and as frequently as possible. Graduate

school in Classical Archaeology requires knowledge of both Ancient Greek and Latin and the department advisor can assist in planning a curriculum to include both languages.

Other Department Policies

Field Experience

Recommended but not required for a major in Classical Archaeology. There are several opportunities for students to join excavations in the Mediterranean area under the supervision of University of Michigan faculty. Contact the Department to speak with an advisor.

Distribution Policy

No course used to fulfill a major requirement may be used toward the LSA Distribution Requirement. In addition, courses in the CLARCH, CLCIV, CLLING, GREEK, GREEKMOD, and LATIN subject areas may not be used toward the Distribution Requirement.

Honors

Effective Date of Honors requirements for the major Fall 2006

The department offers Honors in each of the six majors. Interested students who have a cumulative grade point average of at least 3.5 should contact their department advisor to discuss an Honors thesis no later than the winter term of their junior year at the latest.

It is the student's responsibility to find a suitable faculty advisor to oversee the thesis project. This project and its components are to be decided collectively by the student and the advisor at the end of the junior year. We encourage students to think creatively about the approach to their research and thesis project. Thesis advisors must sign off on a student's thesis project proposal.

Honors students may receive six credits during their senior year for research culminating in a thesis project by registering for one of the following courses: CLARCH 495, CLCIV 495, GREEK 495 or LATIN 495 depending on the major. At the end of the thesis project, the candidate must offer an oral defense of this work to a committee comprised of the thesis advisor and another faculty member, and present their research findings at the Classical Studies Honors Symposium. Additional requirements for Honors candidates are specified with each major.

Honors Plan in Classical Archaeology

In addition to the Honors plan requirements stated above, Honors candidates must satisfy the following:

- 3.4 minimum overall GPA; 3.5 minimum major GPA
- Completion of an Honors thesis and oral defense in coordination with a Classics faculty member
- Completion of eight credits in the second classical language (Greek if the major language is Latin; Latin if the major language is Greek).
- CLCIV 480 *section titled "Research Seminar"* (Fall term)

Students may also elect CLARCH 495 for 1-2 credits in the Fall and 1-3 credits in the Winter, but are not required to do so.

Classical Archaeology (Major) (Fall 2018 - Fall 2022)

Effective Fall 2018

Advising

Students interested in the Department's majors in Greek (Ancient), Latin, Classical Languages and Literatures, Classical Archaeology, Classical Civilization or Greek (Modern) major should check with the **Department office** for the name of the current advisor. Students interested in obtaining Teacher Certification in Latin should see Professor Deborah Ross.

The Department recommends that interested students see the department advisors as early as possible in order to plan their programs and avoid unnecessary scheduling conflicts.

Students wishing to pursue a minor in Classical Studies must develop a specific plan for its completion in consultation with the Department's designated advisor.

Grade Policies

The department requires that a student earn a grade of at least C– in all *language* courses which are prerequisite for subsequent elections. A student should repeat any *language* course in which a D+ or lower grade is earned and which serves as a prerequisite to other courses which are to be elected. A grade of D+ signifies some achievement but denotes too weak a foundation for subsequent courses.

Prerequisites

None.

Requirements

Minimum Credits: 27

Requires a minimum of 9 courses (at least 3 credits each) including:

1. two of the following introductory courses: CLARCH 221, 222, 323
2. three upper-level courses (numbered 325 and above) in the field of Classical Archaeology.
3. one course in either Greek or Roman history or civilization.
4. In consultation with an advisor, one upper-level course in a cognate field (e.g., Anthropology, History, History of Art, Near Eastern Studies, Religion, Women's Studies).
5. third-term proficiency in Greek or Latin (usually met by successful completion of GREEK 301 or the equivalent, or LATIN 231 or the equivalent). Students who plan to fulfill this requirement in other ways should speak to the undergraduate advisor.
6. At least one additional relevant course at the 400 level.

Students interested in possibly continuing in the field of Classical Archaeology should discuss their plans with the undergraduate advisor as early and as frequently as possible. Graduate school in Classical Archaeology requires knowledge of both Ancient Greek and Latin and the department advisor can assist in planning a curriculum to include both languages.

Other Department Policies

Field Experience

Recommended but not required for a major in Classical Archaeology. There are several opportunities for students to join excavations in the Mediterranean area under the supervision of University of Michigan faculty. Contact the Department to speak with an advisor.

Distribution Policy

No course used to fulfill a major requirement may be used toward the **LSA Distribution Requirement**. In addition, courses in the CLARCH, CLCIV, CLLING, GREEK, GREEKMOD, and LATIN subject areas may not be used toward the Distribution Requirement.

Honors

Effective Date of Honors requirements for the major Fall 2006

The department offers Honors in each of the six majors. Interested students who have a cumulative grade point average of at least 3.5 should contact their department advisor to discuss an Honors thesis no later than the winter term of their junior year at the latest.

It is the student's responsibility to find a suitable faculty advisor to oversee the thesis project. This project and its components are to be decided collectively by the student and the advisor at the end of the junior year. We encourage students to think creatively about the approach to their research and thesis project. Thesis advisors must sign off on a student's thesis project proposal.

Honors students may receive six credits during their senior year for research culminating in a thesis project by registering for one of the following courses: CLARCH 495, CLCIV 495, GREEK 495 or LATIN 495 depending on the major. At the end of the thesis project, the candidate must offer an oral defense of this work to a committee comprised of the thesis advisor and another faculty member, and present their research findings at the Classical Studies Honors Symposium.

Additional requirements for Honors candidates are specified with each major.

Honors Plan in Classical Archaeology

In addition to the Honors plan requirements stated above, Honors candidates must satisfy the following:

- 3.4 minimum overall GPA; 3.5 minimum major GPA
- Completion of an Honors thesis and oral defense in coordination with a Classics faculty member
- Completion of eight credits in the second classical language (Greek if the major language is Latin; Latin if the major language is Greek).
- CLCIV 480 *section titled "Research Seminar"* (Fall term)

Students may also elect CLARCH 495 for 1-2 credits in the Fall and 1-3 credits in the Winter but are not required to do so.

Classical Archaeology Minor

The minor in Classical Archaeology is intended to provide students with the opportunity to explore the archaeology and art of the ancient Mediterranean world. Students will acquire a broad archaeological, historical and cultural overview, before turning to more specific courses dealing with the artistic production and material conditions of Greek and Roman society.

Effective Winter 2021

Exclusions:

The Academic minor in Classical Archaeology is not open to students with a major in Classical Archaeology or Classical Civilization or any other minor in the Department of Classical Studies.

Advising

Students interested in the Department's majors in Greek, Latin, Classical Languages and Literatures, Classical Archaeology, Classical Civilization or Modern Greek major should check with the Department office for the name of the current advisor. Students interested in obtaining Teacher Certification in Latin should see Professor Deborah Ross.

Major advising for Modern Greek is provided by Professor Vassilios Lambropoulos and Artemis Leontis. Information about scheduling appointments is available from the department office.

The Department recommends that interested students see the department advisors as early as possible in order to plan their programs and avoid unnecessary scheduling conflicts. Students wishing to pursue a minor in Classical Studies must develop a specific plan for its completion in consultation with the Department's designated advisor . Appointments may be scheduled at 2160 Angell Hall.

Grade Policies

The department requires that a student earn a grade of at least C– in all language courses which are prerequisite for subsequent elections. A student should repeat any language course in which a D+ or lower grade is earned and which serves as a prerequisite to other courses which are to be elected. A grade of D+ signifies some achievement but denotes too weak a foundation for subsequent courses.

Prerequisites

CLARCH 221, 222, or 323.

Requirements

Minimum Credits: 16

At least 16 credits of courses, to be chosen from the following three categories as stated:

1. Introductory courses: At least one broad introductory course in classical archaeology, other than the course elected to meet the prerequisite (CLARCH 221, 222, or 323).
2. Civilization or History courses (Greek or Roman): At least one broad introductory course (CLCIV 101, 202, 302; HISTORY 200, 201).
3. Upper-Level Classical Archaeology courses: At least three courses at the 300- or 400-level in CLARCH.

Classical Civilization Major

A major in Classical Studies equips its students with the knowledge, skills, intellectual agility, and different points of view to pursue a variety of careers, whether the student's next step is entry into the workforce or further education in professional or graduate school. Faculty advisers work with students to develop a program of study within their major and to articulate the connections between their education and career goals and aspirations.

Learning Goals for All Majors

Every major in Classical Studies asks students to:

- explore the many facets of the ancient world—its history, societal and cultural practices, and intellectual endeavors (e.g., law, religion, political theory and practice, art and material objects, language and literature, philosophy, science)
- recognize and interpret the complexities of the ancient world, including such problematic aspects as slavery, gender inequality, and various types of bias
- understand different critical perspectives
- ask questions and engage in critical thinking, especially analysis and synthesis of information, ideas, and situations to solve complex problems
- work with a variety of primary sources, both textual (in the original language or translation) and material (aided by the resources of the Kelsey Museum and the papyrology collection)
- make inferences from the fragmentary and incomplete record of the past
- communicate complex ideas and persuasive arguments in writing and oral presentations
- conduct research using primary and secondary sources, including both traditional and digital media

The Classical Studies Department encourages its students to participate in the wide array of events and activities in which faculty and graduate students are involved, including UROP projects, student clubs, lectures, brown bag presentations, and reading groups. Students are also encouraged to study abroad.

Because many Classical Studies courses are small, majors have opportunities to work closely with their professors and professors get to know their students well.

Classical Civilization

In addition to the learning goals stated above, the Classical Civilization major asks students to:

- understand the interrelationship of history, society, and culture of the ancient Greco-Roman world
- learn practical and theoretical methods for understanding this interrelationship
- familiarize oneself with at least one ancient civilization outside of Greek and Roman civilizations

Effective Winter 2023

Advising

Students interested in the Department's majors in Greek, Latin, Classical Languages and Literatures, Classical Archaeology, Classical Civilization or Modern Greek major should check with the **Department office** for the name of the current advisor. Students interested

in obtaining Teacher Certification in Latin should see the Elementary Latin Coordinator.

The Department recommends that interested students see the department advisors as early as possible in order to plan their programs and avoid unnecessary scheduling conflicts.

Students wishing to pursue a minor in Classical Studies must develop a specific plan for its completion in consultation with the Department's designated advisor.

Grade Policies

The department requires that a student earn a grade of at least C– in all language courses which are prerequisite for subsequent elections. A student should repeat any language course in which a D+ or lower grade is earned and which serves as a prerequisite to other courses which are to be elected. A grade of D+ signifies some achievement but denotes too weak a foundation for subsequent courses.

Prerequisites

A minimum of one course from the following choices, for a total of 4 credits.

- CLCIV 101, 202
- HISTORY 200, 201
- GTBOOKS 191
- CLARCH 221, 222

Requirements

Minimum Credits: 24

A minimum of eight courses of at least 3 credits each. Knowledge of Greek or Latin is not required for this program but is highly recommended.

1. One CLCIV course at the 200-level (minimum 3 credits). If the pre-req emphasizes Greek culture, we encourage students to take a Roman culture class and vice versa.
2. Six courses (minimum 18 credits) in Classical Civilization, with at least three at the 300-level and at least two at the 400-level. Three of the six must belong to one of the following clusters: A) Language, Literature and Reception; B) History and Archaeology; or C) Religion and Philosophy. Greek and Latin language courses at the third term or higher may be counted towards any number of the cluster courses or as one of the three additional courses (with prior approval from the major advisor). One upper level course in a cognate program or department may also count towards a cluster course (with prior approval from the major advisor). Any such substitutions simultaneously apply to the overall six-course requirement.
3. The "Capstone Seminar" - CLCIV 480 (advanced discussion and writing of a 12-15 page research paper on a topic in Classical Civilization; 3 credits total). Students must register for section 001 (2 credits) and section 002 (1 credit).

CLCIV Courses by Cluster

List of courses that may be counted towards each cluster. Note that this list is not meant to be exhaustive, and students should consult with the major advisor about selecting courses for their chosen cluster.

A) Language, Literature and Reception

Ancient Greek at the 300- and 400-level

Latin at the 200-, 300- and 400-level

CLCIV 328: Ancient Languages and Scripts

CLCIV 385: Greek Mythology

CLCIV 464: Ancient Epic

CLCIV 473: Roman Decadence

GREEKMOD 325: Athens, Past and Present

GREEKMOD 340: Travels to Greece

B) History and Archaeology

CLCIV 302: The Roman Republic

CLCIV 375: War in Greek and Roman Civilization

CLCIV 376: Emperors of Rome

CLCIV 382: Food in the Ancient World

CLCIV 392/HIST 292: Ancient Medicine

CLCIV 468: Greeks, Romans and Egyptians

300- and 400-level CLARCH courses also count towards this cluster

Greek and Latin language courses with a history focus (i.e. Herodotus, Thucydides)

C) Religion and Philosophy

CLCIV 293 Ancient World Ethics

CLCIV 347 Roman Religion

CLCIV 381: Magic & Witchcraft

CLCIV 475: Socrates Man & Myth

CLCIV 466: Greek Religion

CLCIV 476: Pagans and Christians

CLCIV 388/PHIL 388: Survey of Ancient Greek Philosophy

Greek and Latin language courses with a religion/philosophy focus (i.e. Lucretius)

Distribution Policy

No course used to fulfill a major requirement may be used toward the **LSA Distribution Requirement**. In addition, courses in the CLARCH, CLCIV, CLLING, GREEK, GREEKMOD, and LATIN subject areas may not be used toward the Distribution Requirement.

Honors

The department offers Honors in each of the six majors. Interested students who have a cumulative grade point average of at least 3.4 should contact their department advisor to discuss an Honors thesis no later than the winter term of their junior year.

It is the student's responsibility to find a suitable faculty advisor to oversee the thesis project. This project and its components are to be decided collectively by the student and the advisor at the end of the junior year. We encourage students to think creatively about the approach to their research and thesis project. Thesis advisors must sign off on a student's thesis project proposal.

At the end of the thesis project, the candidate must offer an oral defense of this work to a committee comprised of the thesis advisor and another faculty member, and present their research findings at the Classical Studies Honors Symposium.

Additional requirements for Honors candidates are specified with each major.

Honors in Classical Civilization

In addition to the above requirements, students pursuing an Honors major must satisfy the following:

- 3.4 minimum cumulative GPA; 3.5 minimum major GPA
- Completion of an Honors thesis and oral defense in coordination with a Classics faculty member
- Completion of one additional cognate course (chosen in consultation with the thesis advisor) deemed relevant to the thesis
- Fourth term language proficiency in either ancient Greek or Latin.
- CLCIV 480 *section titled "Research Seminar"* (in addition to a CLCIV 480 Capstone Seminar already required for majors)

Students may also elect CLCIV 495 for 1-2 credits in the Fall and 1-3 credits in the Winter but are not required to do so.

Classical Civilization (Major) (Winter 2021 - Fall 2022)

Effective Winter 2021

Advising

Students interested in the Department's majors in Greek, Latin, Classical Languages and Literatures, Classical Archaeology, Classical Civilization or Modern Greek major should check with the **Department office** for the name of the current advisor. Students interested in obtaining Teacher Certification in Latin should see Professor Deborah Ross.

The Department recommends that interested students see the department advisors as early as possible in order to plan their programs and avoid unnecessary scheduling conflicts.

Students wishing to pursue a minor in Classical Studies must develop a specific plan for its completion in consultation with the Department's designated advisor.

Grade Policies

The department requires that a student earn a grade of at least C– in all language courses which are prerequisite for subsequent elections. A student should repeat any language course in which a D+ or lower grade is earned and which serves as a prerequisite to other courses which are to be elected. A grade of D+ signifies some achievement but denotes too weak a foundation for subsequent courses.

Prerequisites

A minimum of two courses from the following choices, for a total of 8 credits. One course

must emphasize Greek culture and the other course must emphasize Roman culture:

- CLCIV 101, 202
- HISTORY 200, 201
- GTBOOKS 191
- CLARCH 221, 222

Requirements

Minimum Credits: 27

A minimum of nine courses of at least 3 credits each. Knowledge of Greek or Latin is not required for this program but is highly recommended.

1. One CLCIV course at the 200-level (minimum 3 credits).
2. Six courses (minimum 18 credits) in Classical Civilization, with at least three at the 300-level and at least two at the 400-level. Three of the six must belong to one of the following clusters: A) Language, Literature and Reception, B) History and Archaeology, or C) Religion and Philosophy. Greek and Latin language courses at the 3rd term or higher may be counted towards any of the cluster courses or as one of the three additional courses (with prior approval from the major advisor).
3. One upper-level elective cognate course (minimum 3 credits), chosen in consultation with the major advisor.
4. The "Capstone Seminar" - CLCIV 480 (advanced discussion and writing of a 12-15 page research paper on a topic in Classical Civilization) (3 credits) (Must register for section 001 (2 credits) and section 002 (1 credit)).

CLCIV Courses by Cluster

List of courses that may be counted towards each cluster. Note that this list is not meant to be exhaustive, and students should consult with the major advisor about selecting courses for their chosen cluster.

A) Language, Literature and Reception

Ancient Greek at the 300- and 400-level

Latin at the 200-, 300- and 400-level

CLCIV 328: Ancient Languages and Scripts

CLCIV 385: Greek Mythology

CLCIV 464: Ancient Epic

CLCIV 473: Roman Decadence

GREEKMOD 325: Athens, Past and Present

GREEKMOD 340: Travels to Greece

B) History and Archaeology

CLCIV 302: The Roman Republic

CLCIV 375: War in Greek and Roman Civilization

CLCIV 376: Emperors of Rome

CLCIV 382: Food in the Ancient World

CLCIV 392/HIST 292: Ancient Medicine

CLCIV 468: Greeks, Romans and Egyptians

300- and 400-level CLARCH courses also count towards this cluster

Greek and Latin language courses with a history focus (i.e. Herodotus, Thucydides)

C) Religion and Philosophy

CLCIV 293 Ancient World Ethics

CLCIV 347 Roman Religion

CLCIV 381: Magic & Witchcraft

CLCIV 475: Socrates Man & Myth

CLCIV 466: Greek Religion

CLCIV 476: Pagans and Christians

CLCIV 388/PHIL 388: Survey of Ancient Greek Philosophy

Greek and Latin language courses with a religion/philosophy focus (i.e. Lucretius)

Distribution Policy

No course used to fulfill a major requirement may be used toward the **LSA Distribution Requirement**. In addition, courses in the CLARCH, CLCIV, CLLING, GREEK, GREEKMOD, and LATIN subject areas may not be used toward the Distribution Requirement.

Honors

The department offers Honors in each of the six majors. Interested students who have a cumulative grade point average of at least 3.5 should contact their department advisor to discuss an Honors thesis no later than the winter term of their junior year at the latest.

It is the student's responsibility to find a suitable faculty advisor to oversee the thesis project. This project and its components are to be decided collectively by the student and the advisor at the end of the junior year. We encourage students to think creatively about the approach to their research and thesis project. Thesis advisors must sign off on a student's thesis project proposal.

Honors students may receive six credits during their senior year for research culminating in a thesis project by registering for one of the following courses: CLARCH 495, CLCIV 495, GREEK 495 or LATIN 495 depending on the major. At the end of the thesis project, the candidate must offer an oral defense of this work to a committee comprised of the thesis advisor and another faculty member, and present their research findings at the Classical Studies Honors Symposium.

Additional requirements for Honors candidates are specified with each major.

Honors Concentration in Classical Civilisations

In addition to the above requirements, students pursuing an Honors major must satisfy the following:

- 3.4 minimum overall GPA; 3.5 minimum major GPA
- Completion of an Honors thesis and oral defense in coordination with a Classics faculty member
- Completion of two additional cognate courses deemed relevant to the thesis
- Fourth term language proficiency in either ancient Greek or Latin.

- CLCIV 480 *section titled "Research Seminar"* (in addition to a CLCIV 480 Capstone Seminar already required for majors)

Students may also elect CLCIV 495 for 1-2 credits in the Fall and 1-3 credits in the Winter but are not required to do so.

Classical Civilization Minor

This minor is designed to provide a basic but contextual and broad familiarity with one (Latin or ancient Greek) or both (Latin and ancient Greek) classical languages, their literature, history, archaeology, and civilization. More specifically, it requires students to study, at the intermediate and advanced levels, one or both of the Classical Languages and authors writing poetry and/or prose. At the same time, it acquaints the student with the broader historical, social, and cultural context in which these authors worked. The minor is especially suitable for pre-professional students and students majoring in disciplines like history, philosophy, art history, anthropology, political science, psychology etc., because of the significant linguistic, conceptual, and scientific influence of Greco-Roman culture throughout the globe in the last two millennia.

Effective Winter 2021

Exclusions:

The Academic minor in Classical Civilization is not open to students with a major in Classical Civilization or any other academic minor in the Department of Classical Studies.

Advising

Students interested in the Department's majors in Greek, Latin, Classical Languages and Literatures, Classical Archaeology, Classical Civilization or Modern Greek major should check with the Department office for the name of the current advisor. Students interested in obtaining Teacher Certification in Latin should see Professor Deborah Ross.

The Department recommends that interested students see the department advisors as early as possible in order to plan their programs and avoid unnecessary scheduling conflicts.

Students wishing to pursue a minor in Classical Studies must develop a specific plan for its completion in consultation with the Department's designated advisor .

Grade Policies

The department requires that a student earn a grade of at least C– in all language courses which are prerequisite for subsequent elections. A student should repeat any language course in which a D+ or lower grade is earned and which serves as a prerequisite to other courses which are to be elected. A grade of D+ signifies some achievement but denotes too weak a foundation for subsequent courses.

Prerequisites

Choose one broad introductory course (4 credits) on Greek or Roman culture from the following:

- CLCIV 101: The Ancient Greek World
- CLCIV 202: The Ancient Roman World
- HISTORY 200: Greece to 201 B.C.
- HISTORY 201: Rome
- GTBOOKS 191: Great Books

- CLARCH 221: Intro to Greek Archaeology
- CLARCH 222: Intro to Roman Archaeology

Requirements

Minimum Credits: 16

At least five additional courses (minimum 16 credits) in Classical Civilization. One of these must be another course from the prerequisite list above (at the 200-level) in the culture not chosen to fulfill the prerequisite. The remaining four must be (a) at the 300-level or above and (b) one must be at the 400-level.

One of the 300-level courses in Classical Civilization may be substituted for with any of the following

1. One 300-level course (minimum 3 credits) in Classical Archaeology
2. One course (minimum 3 credits) in Greek or Roman History (other than one taken as a prerequisite)
3. One course in ancient Greek or Latin at the third-semester level or above
4. GREEKMOD 325: Athens Present and Past

Classical Languages and Literatures Major

A major in Classical Studies equips its students with the knowledge, skills, intellectual agility, and different points of view to pursue a variety of careers, whether the student's next step is entry into the workforce or further education in professional or graduate school. Faculty advisers work with students to develop a program of study within their major and to articulate the connections between their education and career goals and aspirations.

Learning Goals for All Majors

Every major in Classical Studies asks students to:

- explore the many facets of the ancient world—its history, societal and cultural practices, and intellectual endeavors (e.g., law, religion, political theory and practice, art and material objects, language and literature, philosophy, science)
- recognize and interpret the complexities of the ancient world, including such problematic aspects as slavery, gender inequality, and various types of bias
- understand different critical perspectives
- ask questions and engage in critical thinking, especially analysis and synthesis of information, ideas, and situations to solve complex problems
- work with a variety of primary sources, both textual (in the original language or translation) and material (aided by the resources of the Kelsey Museum and the papyrology collection)
- make inferences from the fragmentary and incomplete record of the past
- communicate complex ideas and persuasive arguments in writing and oral presentations
- conduct research using primary and secondary sources, including both traditional and digital media

The Classical Studies Department encourages its students to participate in the wide array of

events and activities in which faculty and graduate students are involved, including UROP projects, student clubs, lectures, brown bag presentations, and reading groups. Students are also encouraged to study abroad.

Because many Classical Studies courses are small, majors have opportunities to work closely with their professors and professors get to know their students well.

Greek, Latin, or Classical Languages and Literatures (Greek and Latin)

In addition to the learning goals mentioned above, each of the three language tracks asks students to:

- attain a sophisticated understanding of the ancient language(s) and a deepened understanding of how language constructs meaning
- attain a deep familiarity with foundational literary works and genres through close reading and critical analysis of the content and structure of texts in the original language(s)
- understand the ancient language(s) as the source for the terminology of medicine, law, and the sciences
- understand the wide-ranging influence of classical literature from antiquity to the modern era on cultural and creative enterprise
- draw on the rhetorical and narrative strategies of classical literature to strengthen and refine skills in writing clearly and persuasively

Our department provides free "drop-in" tutoring available to all students in the Elementary Latin and Greek courses.

Effective Winter 2023

Advising

Students interested in the Department's majors in Greek, Latin, Classical Languages and Literatures, Classical Archaeology, Classical Civilization or Modern Greek major should check with the **Department office** for the name of the current advisor. Students interested in obtaining Teacher Certification in Latin should see the Elementary Latin Coordinator.

The Department recommends that interested students see the department advisors as early as possible in order to plan their programs and avoid unnecessary scheduling conflicts.

Students wishing to pursue a minor in Classical Studies must develop a specific plan for its completion in consultation with the Department's designated advisor.

Grade Policies

The department requires that a student earn a grade of at least C– in all *language* courses which are prerequisite for subsequent elections. A student should repeat any *language* course in which a D+ or lower grade is earned and which serves as a prerequisite to other courses which are to be elected. A grade of D+ signifies some achievement but denotes too weak a foundation for subsequent courses.

Prerequisites

None.

Requirements

Minimum Credits: 27

The major requires study of both Greek and Latin; the student chooses one language as the primary language for the purpose of determining requirements. The student takes a minimum of 9 courses (of at least 3 credits each) including:

1. At least 3 courses at the 400-level or above in the primary language
2. At least one course at the 400-level or above in the secondary language
3. At least 3 additional upper-level language courses in either the primary or secondary language
4. One course selected from CLARCH (221 or 222), CLCIV (202 or 302), or HISTORY (200 or 201)
5. At least one upper-level (300- or 400-level) course in Greek or Roman civilization, archaeology, or history (minimum 3 credits)

Constraints

Three credits of Independent Study (GREEK 499 and LATIN 499) may be used with written approval of the undergraduate advisor.

Distribution Policy

No course used to fulfill a major requirement may be used toward the **LSA Distribution Requirement**. In addition, courses in the CLARCH, CLCIV, CLLING, GREEK, GREEKMOD, and LATIN subject areas may not be used toward the Distribution Requirement.

Honors

The department offers Honors in each of the six majors. Interested students who have a cumulative grade point average of at least 3.4 should contact their department advisor to discuss an Honors thesis no later than the winter term of their junior year.

It is the student's responsibility to find a suitable faculty advisor to oversee the thesis project. This project and its components are to be decided collectively by the student and the advisor at the end of the junior year. We encourage students to think creatively about the approach to their research and thesis project. Thesis advisors must sign off on a student's thesis project proposal.

At the end of the thesis project, the candidate must offer an oral defense of this work to a committee comprised of the thesis advisor and another faculty member, and present their research findings at the Classical Studies Honors Symposium.

Additional requirements for Honors candidates are specified with each major.

Honors in Classical Languages and Literatures

In addition to the above requirements, students pursuing an Honors major must satisfy the following:

- 3.4 minimum cumulative GPA; 3.5 minimum major GPA;
- Completion of an Honors thesis and oral defense in coordination with a Classics faculty member
- Completion of one additional Greek or Latin course at the 420-level or above (CLCIV 480 & GREEK/LATIN 495 do not satisfy this requirement)
- CLCIV 480 *section titled "Research Seminar"* (Fall term)

Students may also elect GREEK or LATIN 495 (taken in the primary language) for 1-2 credits in the Fall and 1-3 credits in the Winter but are not required to do so.

Classical Languages and Literatures (Major) (Winter 2021 - Fall 2022)

Effective Winter 2021

Advising

Students interested in the Department's majors in Greek, Latin, Classical Languages and Literatures, Classical Archaeology, Classical Civilization or Modern Greek major should check with the **Department office** for the name of the current advisor. Students interested in obtaining Teacher Certification in Latin should see Professor Deborah Ross.

The Department recommends that interested students see the department advisors as early as possible in order to plan their programs and avoid unnecessary scheduling conflicts.

Students wishing to pursue a minor in Classical Studies must develop a specific plan for its completion in consultation with the Department's designated advisor.

Grade Policies

The department requires that a student earn a grade of at least C– in all *language* courses which are prerequisite for subsequent elections. A student should repeat any *language* course in which a D+ or lower grade is earned and which serves as a prerequisite to other courses which are to be elected. A grade of D+ signifies some achievement but denotes too weak a foundation for subsequent courses.

Prerequisites

None.

Requirements

Minimum Credits: 27

The major requires study of both Greek and Latin; the student chooses one language as the primary language for the purpose of determining requirements. The student takes a minimum of 9 courses (of at least 3 credits each) including:

1. In the primary language at least 3 courses at the 400-level or above.
2. In the secondary language, at least one course at the 400-level or above (300-level courses can't be used in the secondary language).
3. At least 3 additional upper-level language courses (300-level count in the primary language only; courses in the secondary language must be at the 400-level or above).
4. One course selected from CLARCH (221 or 222), CLCIV (202 or 302), or HISTORY (200

or 201).

5. At least one upper-level (300- or 400-level) course in Greek or Roman civilization, archaeology, or history. Minimum of 3 credits.

Constraints

Three credits of Independent Study (GREEK 499 and LATIN 499) may be used with written approval of the undergraduate advisor.

Distribution Policy

No course used to fulfill a major requirement may be used toward the **LSA Distribution Requirement**. In addition, courses in the CLARCH, CLCIV, CLLING, GREEK, GREEKMOD, and LATIN subject areas may not be used toward the Distribution Requirement.

Honors

Effective Date of Honors requirements for the major Fall 2016

The department offers Honors in each of the six majors. Interested students who have a cumulative grade point average of at least 3.5 should contact their department advisor to discuss an Honors thesis no later than the winter term of their junior year at the latest.

It is the student's responsibility to find a suitable faculty advisor to oversee the thesis project. This project and its components are to be decided collectively by the student and the advisor at the end of the junior year. We encourage students to think creatively about the approach to their research and thesis project. Thesis advisors must sign off on a student's thesis project proposal.

Honors students may receive six credits during their senior year for research culminating in a thesis project by registering for one of the following courses: CLARCH 495, CLCIV 495, GREEK 495 or LATIN 495 depending on the major. At the end of the thesis project, the candidate must offer an oral defense of this work to a committee comprised of the thesis advisor and another faculty member, and present their research findings at the Classical Studies Honors Symposium.

Additional requirements for Honors candidates are specified with each major.

Honors Concentration in Classical Civilizations

In addition to the above requirements, students pursuing an Honors major must satisfy the following:

- 3.4 minimum overall GPA; 3.5 minimum major GPA;
- Completion of an Honors thesis and oral defense in coordination with a Classics faculty member
- Completion of one additional Greek or Latin course at the 420-level or above (CLCIV 480 & GREEK/LATIN 495 do not satisfy this requirement)
- CLCIV 480 *section titled "Research Seminar"* (Fall term)

Students may also elect GREEK or LATIN 495 (taken in the primary language) for 1-2 credits in the Fall and 1-3 credits in the Winter but are not required to do so.

Climate and Space Sciences and Engineering Minor

Climate and Space Sciences and Engineering spans a broad range of geoscience and space science and engineering disciplines and attempts to understand the complex, coupled Earth and Space system. It is inherently multidisciplinary, involving departments from the College of Engineering and from other colleges.

The minor will attract and enable undergraduate students throughout the college and university to better prepare them for their chosen profession where knowledge of the climate and space science and engineering is essential for solving global problems.

The primary goal of the Climate and Space Sciences and Engineering (Climate & Space) Minor is to provide exposure to research opportunities in atmospheric, climate and space science and engineering for those students who wish to work in the geoscience or space industry but are not majoring in Climate and Space Sciences and Engineering. The secondary goal is to increase awareness of the Climate and Space Sciences and Engineering and the educational and research opportunities within Climate & Space within the College of Engineering as a whole.

Climate & Space is offering a new minor for undergraduate students in the College of Engineering and undergraduates in other UM Schools and Colleges that have students pursuing degrees in the broader Earth and Space Sciences (LS&A, SNRE, Public Policy, Public Health, Ross).

The primary goal of the **Climate & Space Minor** is to provide exposure to research opportunities in atmospheric, climate and space science and engineering for students who wish to work in the geoscience or space industry but are not majoring in Climate and Space Sciences and Engineering. The secondary goal is to increase awareness of the Climate and Space Sciences and Engineering and the educational and research opportunities within Climate & Space within the College of Engineering as a whole.

The fields of climate, space sciences and engineering require scientists and engineers from a wide range of disciplines, including physics, geosciences, aerospace, mechanical, electrical, computer, civil and environmental engineering etc., in addition to meteorologists, climate scientists, space scientists and space engineers. The breadth required of understanding the coupled Earth and Space system and the tools (computer simulations, instruments and spacecraft) used requires graduates with knowledge of the Earth and Space system in order to be better prepared to succeed.

Contact our **Student Services Office** for more information about the program: **clasp-um-ss@umich.edu**

Eligibility

To be eligible to declare the minor, students must have:

- Registered no later than the last day to add courses for the semester in which they complete the last courses for the minor
- Submitted his or her program of study for the minor to the Climate & Space undergraduate

advisor

- Attained a minimum GPA of 2.0 in the designated courses
- Complete the Climate & Space Minor as part of a degree program

Requirements

Prerequisite coursework (18 credits):

- MATH 115 (4)
- MATH 116 (4)
- PHYSICS 140/141 (5)
- PHYSICS 240/241 (5)

Required Coursework (6 credits)

- One of the following four courses:
SPACE 101 (Introduction to Rocket Science – 3 credits)
CLIMATE 102 (Extreme Weather – 3 credits)
SPACE 103 (Introduction to Space Weather – 3 credits)
CLIMATE 105 (Our Changing Climate – 3 credits)
- CLIMATE 320/SPACE 320 (Earth and Space System Evolution, 3 credits)

Core Focus Courses (minimum 9 credits)

At least three courses from one of the following tracks:

- Meteorology
- Climate Science and Impacts Engineering
- Space Science
- Space Engineering

Meteorology Core

CLIMATE 321 Earth and Space System Dynamics 3
CLIMATE 350 Atmospheric Thermodynamics 3
CLIMATE 380 Introduction to Radiative Transfer 3
CLIMATE 414 Weather Systems* 3
CLIMATE 422 Boundary Layer Meteorology* 4
CLIMATE 440 Meteorology Analysis Lab* 4
CLIMATE 462 Instrumentation 4
CLIMATE 411 Cloud and Precipitation 3
CLIMATE 463 Air Pollution Meteorology 3

Climate Science and Impacts Engineering Core

CLIMATE 321 Earth and Space System Dynamics 3
CLIMATE 350 Atmospheric Thermodynamics 3
CLIMATE 380 Introduction to Radiative Transfer 3
CLIMATE 401 Geophysical Fluid Dynamics 3
CLIMATE 451 Atmospheric Dynamics* 4
CLIMATE 467 Biogeochemical Cycles 3
CLIMATE 466 Carbon Climate Interactions 3
CLIMATE 473 Climate Physics 3
CLIMATE 474 Ice Sheets, Glaciers and Climate Change 3
CLIMATE 480 Climate Change: The Move to Action 3

Space Science Core

- SPACE 370 Solar-Terrestrial Relations 4
- SPACE 478 Space Environment 4
- SPACE 477 Space Weather Modeling 4
- SPACE 495 Upper Atmosphere and Ionosphere 4
- SPACE 462 Instrumentation 4

Space Engineering Core

- SPACE 478 Space Environment 4
- SPACE 405 Engineering Astrophysics 4
- SPACE 462 Instrumentation 4
- SPACE 581 Space Policy 3

* These courses require a prerequisite within Climate & Space.

Climate & Space Minor Sample Program Paths			
Path Option	Required Core(6 Credits)	Path Preparation Core(3 Credits)	Electives (min 6 Credits)
Meteorology	CLIMATE 320 CLIMATE 321	CLIMATE 102	CLIMATE 350, CLIMATE 414
Climate Science and Engineering	CLIMATE 320 CLIMATE 321	CLIMATE 105	CLIMATE 401, CLIMATE 405
Space Science	SPACE 320 SPACE 321	SPACE 101 or 103	SPACE 370, SPACE 405
Space Engineering	SPACE 320 SPACE 321	SPACE 101 or 103	SPACE 370, SPACE 462

Cognitive Science Major

May be elected as an interdepartmental major, jointly administered by the Departments of Linguistics, Philosophy, and Psychology, and supervised by the Cognitive Science Executive Committee

Cognitive science is the cross-disciplinary study of mind, brain, and behavior. This study is conducted at multiple levels of analysis, ranging from theories of neuronal processing, to computational models of how information is processed, to evolutionary models intending to explain various features of mental architecture. Recent advances in cognitive science —

made possible in large part by crossing conventional disciplinary and departmental boundaries — are distinguished by efforts to build comprehensive theories that integrate these multiple levels of analysis. Through rigorous, multi-disciplinary investigations, the field continues to reformulate fundamental and enduring questions, while posing new ones, concerning the nature of, for example, thought, reason, decision, language, and knowledge.

The Weinberg Institute for Cognitive Science reflects these developments by coordinating interdisciplinary course offerings and research training for students seeking a degree in Cognitive Science. Tracks of study within the major provide primary (but concomitantly interdisciplinary) emphases on (a) **computation and cognition**, (b) **decision and cognition**, (c) **language and cognition**, and (d) **philosophy and cognition**. The major is therefore intended for students interested in a natural or social science degree in the behavioral and brain sciences with a combined focus and breadth not accommodated by a major within any single department.

Effective Fall 2021

Advising

A three-tier advising system exists.

- Peer advisors (**Tier 1**) will help majors select a major track, identify courses that suit their interests, and plan course schedules.
- Students will meet with advisors in the major (student services staff; **Tier 2**) when declaring, making course substitutions, discussing transfer/study abroad credit evaluations, preparing major release forms, and more.
- Students will meet with faculty advisors (**Tier 3**) for more detailed discussions about their undergraduate preparation, graduate school, and research opportunities (including possible post-graduate training opportunities). Faculty advisors are faculty in Linguistics, Philosophy, and Psychology.

Although all tracks are interdisciplinary, each has a particularly heavy concentration of courses in one of the sponsoring units, and advisors for a given track will be primarily selected from that unit:

- **Computation and Cognition**
- **Decision and Cognition**
- **Language and Cognition**
- **Philosophy and Cognition**

Advising appointments can be made **here**; or by contacting Weinberg-Institute@umich.edu.

Grade Policies

Cognitive Science majors must earn a grade of at least C- in all courses taken to satisfy the requirements of the major (including the major gateway/prerequisite course, COGSCI 200).

Prerequisites

1. Have completed or are enrolled in COGSCI 200: Introduction to Cognitive Science
2. Prerequisites vary dependent on student's declared track. Courses used to satisfy track requirements may have additional prerequisites.

Requirements

Minimum Credits: 27

The major is structured into four tracks, each representing a major area of research within contemporary cognitive science.

Each track consists of:

1. Three required courses
2. Six electives
 - a. Four elective courses chosen from a track-specific list
 - b. Two elective courses from any of the Cognitive Science tracks or a non-track-specific list

The combined set of students' required and elective courses must be selected from a minimum of three departments.

Computation and Cognition Track

A foundational idea of cognitive science is that mental processes are computational, and computation remains central to (but not the exclusive domain of) the field. This track requires students to take coursework in psychology and computer programming. Subsequent depth courses emphasize — although not exclusively so — computational and formal methods including machine learning, computational linguistics, rational choice theory, and mathematical psychology.

Required Track Courses

1. PSYCH 240: Introduction to Cognitive Psychology
OR
PSYCH 345: Introduction to Human Neuropsychology
2. EECS 281: Data Structures and Algorithms
3. EECS 492: Introduction to Artificial Intelligence
OR
EECS 445: Introduction to Machine Learning
OR
COGSCI 445: Introduction to Machine Learning for Natural Language Processing

Electives. Choose Six electives selected from:

- Four elective courses chosen from a track-specific list
 - Two elective courses from any of the Cognitive Science tracks
- CMPLXSYS 270: Agent-Based Modeling
 - CMPLXSYS 501: Introduction to Complex Systems
 - CMPLXSYS 511: Theory of CMPLXSYS
 - COGSCI / LING 209 / PSYCH 242: Language and Human Mind
 - COGSCI 497: Directed Research for Cognitive Science
 - COGSCI 498: Independent Study for Cognitive Science
 - COGSCI 499: Senior Honors Research for Cognitive Science
 - ECON 398: Strategy
 - EECS 368: Special Topics, *section titled "Conversational Artificial Intelligence: Principles and Practice of Virtual Assistant AI" (only if elected WN20 or later)*

- EECS 376: Foundations of Computer Science
- EECS 442: Computer Vision
- EECS 445: Introduction to Machine Learning
- EECS 498: Special Topics , *sections titled "Reinforcement Learning" or "Deep Learning" or "Conversational Artificial Intelligence" (only if taken Winter 2020 or later)*
- EECS 595 / LING 541 / SI 561: Natural Language Processing
- EECS / PSYCH 644: Computational Modeling of Cognition (only if elected WN 20 or later)
- IOE 536: Cognitive Ergonomics
- LING 209 / PSYCH 242 / COGSCI 209: Language and Human Mind
- LING 347 / PSYCH 349: Talking Minds
- LING 441: Introduction to Computational Linguistics
- LING 442: The Anatomy of Natural Language Processing Systems
- LING 447 / PSYCH 445: Psychology of Language
- LING 492: Topics in Linguistics; *section titled, "Computation and Data Science for Linguists" (only if elected FA19 or later)*
- LING 541 / EECS 595 / SI 561: Natural Language Processing
- MATH 481: Intro Math Logic
- PHIL 303: Symbolic Logic
- PHIL 340: Minds and Machines
- PHIL 383: Knowledge and Reality
- PHIL 414: Mathematical Logic
- PHIL 417: Logic and Artificial Intelligence
- PHIL 443: Foundations of Rational Choice Theory
- PHIL 450: Philosophy of Cognition
- PHIL 482: Philosophy of Mind
- PSYCH 240: Introduction to Cognitive Psychology
- PSYCH 242 / COGSCI / LING 209: Language and Human Mind
- PSYCH 303: Res Methods in Psych
- PSYCH 330: Topics in Biopsychology, *section titled "Human Cognition Evolution"*
- PSYCH 340: *Topics in Cognition; section titled, Research Methods in Human Electroencephalography*
- PSYCH 345: Introduction to Human Neuropsychology
- PSYCH 346: Learning and Memory
- PSYCH 347: Perception
- PSYCH 348: Psychology of Thinking
- PSYCH 349 / LING 347: Talking Minds
- PSYCH 355: Cognitive Development
- PSYCH 445 / LING 447: Psychology of Language
- PSYCH 448: Mathematical Psychology
- PSYCH / EECS 644: Computational Modeling of Cognition (*only if elected WN 20 or later*)
- SI 388: Putting the H in HCI: Human Perception, Cognition and Mental Processes (*only if elected WN 19 or later*)
- SI 422: Needs Assessment and Usability Evaluation
- SI 561 / EECS 595 / LING 541: Natural Language Processing

- One of the following research-related classes:
 - a. PSYCH 302: Research Methods in Cognitive Neuroscience
 - b. PSYCH 303: Research Methods in Psychology
 - c. PSYCH 331: Research Methods in Brain, Behavior, and Cognition Science
 - d. PSYCH 341: Advanced Lab in Cognitive Psychology

Decision and Cognition Track

The study of decision and choice is a lively area of contemporary cognitive science inquiry. The Decision and Cognition track provides students with sustained, cohesive instruction in a single, important content area: contemporary approaches to decision-making and choice. Students are presented with theoretical approaches to judgment and decision-making from psychology, emerging neurocircuit models of reward and reinforcement from neurobiology, algorithmic models of planning and action selection from computer science, formal approaches to rational choice (e.g., rational choice theory and game theory) from philosophy and political science, and cutting-edge approaches to understanding irrationality from behavioral economics. Critical thinking skills are honed as students learn about a well-defined content area from diverse perspectives and across multiple levels of analysis. The required courses in the Decision and Cognition track give students an introduction to historically influential approaches to decision-making drawn from three major fields. Students then have the opportunity to take coursework in a number of disciplines that approach decision-making from diverse but complementary theoretical perspectives.

Required Track Courses

1. PHIL 361: Ethics

2. PHIL 443: Foundations of Rational Choice Theory
or
PHIL 444: Groups and Choices

3. PSYCH 449: Decision Processes

Electives. Choose Six electives selected from:

Four elective courses chosen from a track-specific list

Two elective courses from any of the Cognitive Science tracks

- CMPLXSYS 270: Agent-Based Modeling
- CMPLXSYS 501: Introduction to Complex Systems
- CMPLXSYS 511: Theory of CMPLXSYS
- CMPLXSYS / POLSCI 391: Modeling Political Processes
- COGSCI 301: Special Topics for Cognitive Science, *section titled "Topics in Moral Psychology"* (only if elected WN 20 or later)
- COGSCI 302: Topics in Moral Psychology (only if elected FA20 or later)
- COGSCI 497: Directed Research for Cognitive Science
- COGSCI 498: Independent Study for Cognitive Science
- COGSCI 499: Senior Honors Research for Cognitive Science
- ECON 395: Topics in Microeconomics and Microeconomic Policy, *section titled "Risk and Uncertainty"*
- ECON 398: Strategy

- ECON 409: Game Theory
- ECON 490: Topics in Microeconomics, *section titled "Behavioral Economics"*
- ECON 490: Topics in Microeconomics, *section titled "Ethics in Economic Behavior"*
- EECS 281: Data Structures and Algorithms
- ENVIRON / PSYCH 360: Behavior and Environment (*only if elected WN 19 or later*)
- IOE 536: Cognitive Ergonomics
- LING 492: Topics in Linguistics, *section titled "Computation and Data Science for Linguists"*
- MATH 481: Intro Math Logic
- MKT 313: Consumer Behavior
- PHIL 340: Minds and Machines
- PHIL 384: Applied Epistemology
- PHIL 414: Mathematical Logic
- PHIL 429: Ethical Analysis
- PHIL 443: Foundations of Rational Choice Theory
- PHIL 444: Groups and Choices
- PHIL 485: Philosophy of Action
- POLSCI / CMPLXSYS 391: Modeling Political Processes
- POLSCI 489: Advanced Topics in Contemporary Political Science, *section titled "Collective Intelligence"*
- POLSCI 490: Game Theory and Formal Models
- PPE 300: Introduction to Political Economy
- PSYCH 240: Introduction to Cognitive Psychology
- PSYCH 303: Res Methods in Psych
- PSYCH 314: Positive Psychology
- PSYCH 330: Topics in Biopsychology; *section titled, "Human Cognitive Evolution"* (*only if elected FA19 or later*)
- PSYCH 335: Introduction to Animal Behavior
- PSYCH 336: Drugs of Abuse
- PSYCH 340: Topics in Cognition; *section titled, Research Methods in Human Electroencephalography*
- PSYCH 343: Cognitive Neuroscience of Learning and Memory (*only if elected WN 19 or later*)
- PSYCH 345: Introduction to Human Neuropsychology
- PSYCH 346: Learning and Memory
- PSYCH 348: Psychology of Thinking
- PSYCH 356: Educational Psychology
- PSYCH / ENVIRON 360: Behavior and Environment (*only if elected WN 19 or later*)
- PSYCH 389: Psychology and Law
- PSYCH 401: Special Problems in Psychology as a Social Science, *section titled, "The Science of Happiness"* (*only if elected WN 19 or later*)
- PSYCH 402: Special Problems in Psychology, *section titled "The Compassionate Brain"*
- PSYCH 402: Special Problems in Psychology, *section titled "Decision Making in Real Life"*
- PSYCH 440: Advanced Topics in Cognitive Neuroscience *section titled, "Learning & Memory"* (*only if taken Winter 2020 or later*)

- PSYCH 443: Creativity
- PSYCH 446: Altruism
- PSYCH 448: Mathematical Psychology
- PSYCH 449: Decision Processes
- PSYCH 487: Current Topics in Social Psychology, *section titled "Intelligence, Foolishness, and Strategic-Control"*
- SI 388: Putting the H in HCI: Human Perception, Cognition and Mental Processes (*only if elected WN 19 or later*)
- *One of the following research-related classes:*
 - a. PSYCH 302: Research Methods in Cognitive Neuroscience
 - b. PSYCH 303: Research Methods in Psychology
 - c. PSYCH 331: Research Methods in Brain, Behavior, and Cognition Science
 - d. PSYCH 341: Advanced Lab in Cognitive Psychology

Language and Cognition Track

Because human language is universal in the species and grounded in human cognition and biology, linguistic inquiry was an integral component of the cognitive science revolution. Contemporary approaches to language synthesize models and findings from multiple disciplines, and the proposed curriculum is correspondingly interdisciplinary. The Language and Cognition track gives students a solid theoretical introduction to language through required coursework in linguistics, and in the philosophy and psychology of language. Further coursework broadens the investigation of language to include topics in computational linguistics and computer science, formal methods, and language development and learning.

Required Track Courses

1. LING 313: Sound Patterns
OR
LING 315: Introduction to Syntax
OR
LING 316: Aspects of Meaning
2. PHIL 345: Language and Mind
OR
PHIL 409: Philosophy of Language
OR
PHIL 426/LING 426: Philosophy & Linguistic Theory
3. LING 347/PSYCH 349: Talking Minds
OR
LING 209 / PSYCH 242 / COGSCI 209: Language and Human Mind

Electives. Choose Six electives selected from:

- Four elective courses chosen from a track-specific list
- Two elective courses from any of the Cognitive Science tracks
- COGSCI / LING 209 / PSYCH 242: Language and Human Mind
- COGSCI / LING 445: Introduction to Machine Learning for Natural Language

Processing (*only if taken FA20 or later*)

- COGSCI 497: Directed Research for Cognitive Science
- COGSCI 498: Independent Study for Cognitive Science
- COGSCI 499: Senior Honors Research for Cognitive Science
- EECS 281: Data Structures and Algorithms
- EECS 595 / LING 541 / SI 561: Natural Language Processing
- LING 209 / PSYCH 242 / COGSCI 209: Language and Human Mind
- LING 313: Sound Patterns
- LING 315: Introduction to Syntax
- LING 316: Aspects of Meaning
- LING 342: Perspectives on Bilingualism
- LING 347 / PSYCH 349: Talking Minds
- LING 394: Topics in Linguistics, *section titled "Speech Errors"*
- LING 351 / PSYCH 344: Second Language Acquisition
- LING / PSYCH 352: Development of Language and Thought
- LING 412: Speech Perception
- LING 413: Speech Science
- LING / PHIL 426: Philosophy and Linguistic Theory
- LING 440: Language Learnability
- LING 441: Introduction to Computational Linguistics
- LING 442: The Anatomy of Natural Language Processing Systems
- LING 446: Comparative Linguistics
- LING 447 / PSYCH 445: Psychology of Language
- LING 492: Topics in Linguistics; *section titled, "Computation and Data Science for Linguists"* (only if elected FA19 or later)
- LING 492: Topics in Linguistics, *section titled "Language Variation and Social Cognition"*
- LING 492: Topics in Linguistics, *section titled "Perspectives on Bilingualism"*
- LING 492: Topics in Linguistics, *section titled "Introduction to Neurolinguistics"*
- LING 492: Topics in Linguistics, *section titled "Topics in Neurolinguistics"*
- LING 492: Topics in Linguistics, *section titled "Sign language Linguistics"*
- LING 497: Capstone Seminar, *section titled "Speech Perception"*
- LING 541 / EECS 595 / SI 561: Natural Language Processing
- PHIL 345: Language and Mind
- PHIL 409: Philosophy of Language
- PHIL / LING 426: Philosophy and Linguistics Theory
- PHIL 446: Social and Political Philosophy of Language
- PHIL 482: Philosophy of Mind
- PSYCH 240: Introduction to Cognition Psychology
- PSYCH 242 / COGSCI / LING 209: Language and Human Mind
- PSYCH 303: Research Methods in Psychology (only if elected FA19 or later)
- PSYCH 330: Topics in Biopsychology; *section titled, "Human Cognitive Evolution"* (only if elected FA19 or later)
- PSYCH 340: Topics in Cognition; *section titled, Research Methods in Human Electroencephalography*
- PSYCH 344 / LING 351: Second Language Acquisition
- PSYCH 349 / LING 347: Talking Minds

- PSYCH / LING 352: Development of Language and Thought
- PSYCH 445 / LING 447: Psychology of Language
- PSYCH 447: Current Topics in Cognition and Cognitive Neuroscience, *section titled "Analyzing Language Usage, Acquisition, and Processing"*
- SI 561 / EECS 595 / LING 541: Natural Language Processing
- One of the following research-related classes:
 - a. PSYCH 302: Research Methods in Cognitive Neuroscience
 - b. PSYCH 303: Research Methods in Psychology
 - c. PSYCH 331: Research Methods in Brain, Behavior, and Cognition Science
 - d. PSYCH 341: Advanced Lab in Cognitive Psychology

Philosophy and Cognition Track

There is extensive interaction between contemporary philosophy, especially philosophy of mind and ethics, and cognitive science. Philosophers have long posed fundamental questions about the nature of mind, the relationship between the mental and physical, and the nature of human agency. Cognitive science provides a rich and ever-expanding body of theory, models, and findings that are relevant to these timeless philosophical questions. The Philosophy and Cognition track requires coursework in core philosophical, formal and cognitive approaches to mind. More in-depth coursework allows students to deepen their understanding of the philosophical problems and analytical enigmas raised by language and other symbolic systems, artificial intelligence, inference and reasoning, and decision-making.

Required Track Courses

1. PSYCH 240: Introduction to Cognitive Psychology
OR
PSYCH 345: Introduction to Human Neuropsychology
2. PHIL 340: Minds and Machines
OR
PHIL 482: Philosophy of Mind
3. PHIL 303: Introduction to Symbolic Logic
OR
PHIL 305: Introduction to Formal Philosophical Methods
OR
PHIL 413: Formal Philosophical Methods

Electives. Choose Six electives selected from:

- Four elective courses chosen from a track-specific list
- Two elective courses from any of the Cognitive Science tracks
- COGSCI / LING 209 / PSYCH 242: Language and Human Mind
- COGSCI 301: Special Topics for Cognitive Science, *section titled "Topics in Moral Psychology"* (only if elected WN 20 or later)
- COGSCI 302: Topics in Moral Psychology (only if elected FA20 or later)
- COGSCI 497: Directed Research for Cognitive Science
- COGSCI 498: Independent Study for Cognitive Science

- COGSCI 499: Senior Honors Research for Cognitive Science
- EECS 281: Data Structures and Algorithms
- HISTORY 265: Minds and Brains in America (*only if elected FA19 or later*)
- LING 209 / PSYCH 242 / COGSCI 209: Language and Human Mind
- LING 316: Aspects of Meaning
- LING 447 / PSYCH 445: Psychology of Language
- LING 492: Topics in Linguistics; *section titled, "Computation and Data Science for Linguists"* (only if elected FA19 or later)
- MATH 481: Intro Math Logic
- PHIL 303: Symbolic Logic
- PHIL 305: Introduction to Formal Philosophical Methods
- PHIL 340: Minds and Machines
- PHIL 345: Language and Mind
- PHIL 356: Bioethics
- PHIL 361: Ethics
- PHIL 381: Science and Objectivity
- PHIL 383: Knowledge and Reality
- PHIL 384: Applied Epistemology
- PHIL 413: Formal Philosophical Methods
- PHIL 414: Mathematical Logic
- PHIL 417: Logic and Artificial Intelligence
- PHIL 443: Foundations of Rational Choice Theory
- PHIL 444: Groups and Choices (*only if elected WN 20 or later*)
- PHIL 446: Social and Political Philosophy of Language
- PHIL 450: Philosophy of Cognition
- PHIL 482: Philosophy of Mind
- PHIL 485: Philosophy of Action
- PSYCH 242 / COGSCI / LING 209: Language and Human Mind
- PSYCH 303: Research Methods in Psychology (*only if elected FA19 or later*)
- PSYCH 314: Positive Psychology (*only if elected WN20 or later*)
- PSYCH 330: Topics in Biopsychology, *section titled, "Human Cognitive Evolution"* (*only if elected FA19 or later*)
- PSYCH 340: Topics in Cognition; *section titled, Research Methods in Human Electroencephalography*
- PSYCH 345: Introduction to Human Neuropsychology
- PSYCH 346: Learning and Memory
- PSYCH 347: Perception
- PSYCH 348: Psychology of Thinking
- PSYCH 401: Special Problems in Psychology as a Social Science, *section titled, "The Science of Happiness"* (*only if elected WN20 or later*)
- PSYCH 440: Advanced Topics in Cognitive Neuroscience *section titled, "Learning & Memory"* (*only if taken Winter 2020 or later*)
- PSYCH 445 / LING 447: Psychology of Language
- PSYCH 446: Altruism
- PSYCH 447: Current Topics in Cognition and Cognitive Neuroscience, *section titled "Consciousness and Cognition"*
- PSYCH 448: Mathematical Psychology

- One of the following research-related classes:
 - a. PSYCH 302: Research Methods in Cognitive Neuroscience
 - b. PSYCH 303: Research Methods in Psychology
 - c. PSYCH 331: Research Methods in Brain, Behavior, and Cognition Science
 - d. PSYCH 341: Advanced Lab in Cognitive Psychology

Non-Track-Specific Electives

The list of electives below contains classes that are relevant to the study of cognitive science, but not to a specific track of the major. These may count toward the two classes allowed for each track that are not track-specific.

- QMSS 201: Intro to Quantitative Methods in the Social Sciences
- QMSS 251: Computational Social Sciences
- STATS 250: Introduction to Statistics and Data Sciences

Constraints

Independent Study. Students may take a minimum of three credits of Independent Study (COGSCI 497 or 498) to fulfill one elective requirement or six credits (COGSCI 497 and either 498 or 499) to fulfill two elective requirements.

Other Department Policies

Double Majoring. Cognitive Science majors may double major in BCN, Linguistics, Neuroscience, Philosophy, Psychology, or other fields. However, to ensure that these students have devoted significant, independent effort to each major, **only three courses** can be counted toward both majors.

Residency

At least 5 of the 9 classes that fulfill the Cognitive Science major must be taken in residence. In residence courses are those elected on the Ann Arbor campus or at off-campus sites directed by Ann Arbor faculty. This includes STDABRD, Camp Davis, Biological Station, and Michigan-in-Washington.

Distribution Policy

No course used to fulfill a major requirement may be used toward the **LSA Distribution Requirement**. In addition, courses in the COGSCI subject area may not be used toward the Distribution Requirement.

Honors

Honors in Cognitive Science gives students with strong academic performance the opportunity for an in-depth research experience under the close supervision of a faculty mentor. Cognitive Science students interested in pursuing Honors will submit an interest form by December of their junior year, followed by an official application in September of the following year (senior year). The Honors plan will be added to the student's major after the submission of the interest form, provided they are within range to graduate with a 3.4 GPA. The application will include a research proposal with timeline and must be signed by the faculty mentor. Applications will be reviewed by the Cognitive Science Director & Assistant Director to ensure that the project falls within cognitive science. Cognitive Science Honors students will have the option to earn independent study credit for their thesis in the

Fall (COGSCI 497) and/or Winter (COGSCI 499) semesters. If a student chooses to enroll in these courses, the courses will count toward the minimum of three credits of Independent Study to fulfill one elective requirement or six credits to fulfill two elective requirements (see Independent Study constraints above). To graduate with Honors, students must have a minimum cumulative GPA of 3.4 and complete an approved Cognitive Science Honors Thesis.

Communication and Media Major

The Communication and Media undergraduate curriculum teaches students to (1) critically analyze the role of communication and media in society and (2) effectively apply principles of strategic communication and public engagement. Across these two programmatic areas, the curriculum emphasizes six thematic clusters listed below. Overall, students learn how media influences individuals, shapes society, and how communication principles can be utilized to address critical social issues.

Two Key Areas:

1. Critical Analysis of the Role of Communication and Media in Society
2. Strategic Communication and Public Engagement

Thematic Clusters:

1. Advertising and Marketing, Advocacy, and Campaign Design
2. Digital Media, Technology, and Society
3. Entertainment and Media Industries
4. Identities, Race, Gender, Sexuality, and Representation
5. Media Psychology and Audiences
6. Politics, News, and Democracy

Effective Winter 2023

Advising

Advising appointments are only scheduled online at: www.lsa.umich.edu/comm/. Students should schedule an advising appointment on the online appointment system with an advisor to learn about major requirements, discuss progress in the major, discuss the process for approval for study abroad or transfer credit, or to complete *Major Release Forms*.

Prospective majors can schedule a pre-major appointment with an advisor anytime, but no later than the second term of the sophomore year is strongly recommended. Most majors continue to see an advisor at least once a year. In any case, students must consult with the undergraduate program coordinator during the first term of their senior year to ensure that required courses will be completed for graduation.

Prerequisites

Two prerequisite courses (COMM 101 and COMM 102) must be **completed prior to declaration**. COMM 101 and 102 must be completed with a grade of C- or higher in each course. Additional information can be found on the department website at www.lsa.umich.edu/comm/undergraduates.

Requirements

Minimum Credits: 28

At least 29 (or 28 for students using the Senior Thesis Program seminar COMM 452/492 toward Communication and Media Upper Level Writing) credits in Communication and Media. These must include the following:

1. *Communication in Action*: One course that emphasizes engaging in the public sphere. Approved courses include COMM courses numbered COMM 350-399, the senior thesis seminar COMM 452/492, or a course from an approved list (3-4 credits).
2. *Communication and Media Capstone Seminar*: One course from courses numbered COMM 450-499 or senior thesis seminar COMM 451/491 (3 credits). Only ONE capstone seminar may count toward the major.
3. *Additional Advanced Communication and Media Credits*: 22 additional credits from courses numbered COMM 200-449 (not used to fulfill another requirement within the major). No more than three credits of independent reading/research (COMM 322/441/442) can be used to meet this requirement.

No more than 12 credits may come from COMM 200-level coursework. No more than 3 credits of independent study/research (COMM 322/441/442) can be used towards the major. Only one capstone may be taken for credit and used towards the major. In order to ensure that majors can enroll in required courses, up to 75% of spaces in many 300- and 400-level Communication and Media courses are reserved for declared majors. All spaces in the capstone seminars are reserved for declared senior Communication and Media students.

Senior Thesis Program

Students accepted for the Senior Thesis Program take a year-long seminar during their senior year (COMM 451/491 and 452/492) while conducting research and writing a thesis. The program has two tracks: Seniors with a GPA which qualifies them to graduate with honors enroll in COMM 491 and 492; all other participating students enroll in 451 and 452. An enforced prerequisite for the Senior Thesis Program is completion of the LSA Quantitative Reasoning Requirement (in any department) with a C grade or better. COMM 451/491 may be counted towards the COMM Senior Capstone requirement and COMM 452/492 may fulfill the Communication in Action requirement.

Constraints

No more than 12 credits at 200 level in COMM coursework may be used to fulfill requirements.

Other Department Policies

Students are strongly encouraged to attend a monthly information session prior to declaring a major.

The official grades of all prerequisite courses must be recorded on the students transcript before the student can declare the major.

Residency

A minimum of 12 out of the 22 Additional Advanced Communication and Media Credits must be taken on the Ann Arbor campus. All other required courses must be taken on the Ann Arbor campus.

Distribution Policy

No course used to fulfill a major requirement may be used toward the **LSA Distribution Requirement**. In addition, courses in the COMM subject area may not be used toward the Distribution Requirement.

Honors

A student accepted to the Senior Thesis Program may be eligible to graduate with Highest Honors, High Honors, or Honors. The Honors track requires a 3.5 major GPA by their final term of junior year and a 3.4 overall GPA. Application and formal admission by the Department are required.

- **Enforced prerequisite for admission to the Honors SubPlan:** Completion of the LSA Quantitative Reasoning Requirement (in any department) with a C grade or better.
- **Advisory prerequisites:** COMM 221, COMM 222, STATS 250 or STATS 280 (honors) strongly recommended.
- In addition to satisfying all regular requirements for the major, an Honors Plan must also include the Senior Thesis Seminars. COMM 492 is required for the Honors Degree.
- Students may fulfill their Upper Level Writing Requirement by completing COMM 492.

Communication and Media (Major) (Fall 2022)

Effective Fall 2022

Advising

Advising appointments are only scheduled online at: www.lsa.umich.edu/comm/. Students should schedule an advising appointment on the online appointment system with an advisor to learn about major requirements, discuss progress in the major, discuss the process for approval for study abroad or transfer credit, or to complete *Major Release Forms*.

Prospective majors can schedule a pre-major appointment with an advisor anytime, but no later than the second term of the sophomore year is strongly recommended. Most majors continue to see an advisor at least once a year. In any case, students must consult with the undergraduate program coordinator during the first term of their senior year to ensure that required courses will be completed for graduation.

Prerequisites

Two prerequisite courses (COMM 101 and COMM 102) must be **completed prior to declaration**. COMM 101 and 102 must be completed with a grade of C- or higher in each course. Additional information can be found on the department website at www.lsa.umich.edu/comm/undergraduates.

Requirements

Minimum Credits: 28

At least 29 (or 28 for students using the Senior Thesis Program seminar COMM 452/492 toward Communication and Media Upper Level Writing) credits in Communication and Media. These must include the following:

1. *Communication and Media Upper-Level Writing:* One course from courses numbered COMM 350-399 or COMM 452/492.
2. *Communication and Media Capstone Seminar:* One course from courses numbered

COMM 450-499 (3 credits). Students may choose to take a capstone seminar or senior thesis course* to fulfill this requirement. Only ONE capstone seminar may count toward the major.

3. *Additional Advanced Communication and Media Credits*: 22 additional credits from courses numbered COMM 200-449 (not included in 1. and 2. above). No more than one of COMM 290, 291, 292 may count toward the 28 credits in the major. No more than three credits of independent reading/research (COMM 322/441/442) can be used to meet this requirement.

In order to ensure that majors can enroll in required courses, up to 75% of spaces in many 300- and 400-level Communication and Media courses are reserved for declared majors. All spaces in the Capstone seminars are reserved for declared senior Communication and Media students.

Senior Thesis Program

Students accepted for the Senior Thesis Program take a year-long seminar during their senior year (COMM 451/491 and 452/492) while conducting research and writing a thesis. The program has two tracks: Seniors with a GPA which qualifies them to graduate with honors enroll in COMM 491 and 492, all other participating students enroll in 451 and 452. Enforced prerequisite for the Senior Thesis Program is completion of the LSA quantitative reasoning requirement (in any department) with a C grade or better. COMM 451/491 may be counted towards the COMM Senior Capstone requirement and COMM 452/492 may fulfill the Communication and Media Upper Level Writing requirement.

Constraints

No more than 8 credits may come from COMM 200-289.

Other Department Policies

Students are strongly encouraged to attend a monthly information session prior to declaring a major.

Students cannot declare by email, phone, or fax. Additionally, the official grades of all prerequisite courses must be recorded on the students transcript before the student can declare the major.

Residency

A minimum of 12 out of the 22 Additional Advanced Communication and Media Credits must be taken on the Ann Arbor campus. All other required courses must be taken on the Ann Arbor campus.

Distribution Policy

No course used to fulfill a major requirement may be used toward the **LSA Distribution Requirement**. In addition, courses in the COMM subject area may not be used toward the Distribution Requirement.

Honors

A student accepted to the Senior Thesis Program may be eligible to graduate with Highest Honors, High Honors, or Honors. The Honors track requires a 3.5 major GPA by their final term of junior year and a 3.4 overall GPA. Application and formal admission by the Department are required.

- **Enforced prerequisite for admission to the Honors SubPlan:** Completion of the LSA quantitative reasoning requirement (in any department) with a C grade or better.
- **Advisory prerequisites:** COMM 221, COMM 222, STATS 250 or STATS 280 (honors) strongly recommended.
- Students should contact the department's Honors advisor as early as possible for curricular planning, but applications for the Honors Major are required by **March 15 of the student's junior year.**
- In addition to satisfying all regular requirements for the major, an Honors Plan must also include the Senior Thesis Seminars. COMM 492 is required for the Honors Degree.
- Students may fulfill their Upper Level Writing Requirement by completing COMM 492.

Community Action and Social Change (Minor)

This multidisciplinary minor is a collaboration between the School of Social Work, the College of Literature, Science and the Arts, the Program in American Culture, Psychology, Sociology, and the Program in Intergroup Relations, the Residential College and the Michigan Community Scholars Program.

The CASC minor uses critical structural thinking to engage students in analyzing types, levels and sources of power to better understand how inequities are manifested, maintained and reinforced in society and how these inequities can be addressed through community action and social change efforts. It will extend opportunities for undergraduate students to:

1. examine community action and social change concepts using a multidisciplinary framework;
2. address community action and social change efforts in multilingual and multicultural communities;
3. integrate, using a multidisciplinary framework, social justice values into the community action and social change processes; and
4. engage in service learning opportunities to promote community action or social change.

The courses that comprise this multidisciplinary minor are linked together through a common set of principles. These principles include:

1. Civic engagement is a critical component of undergraduate education.
2. Community engagement, action and social change need to incorporate social justice perspectives.
3. Undergraduate students need the theories and skills to:
 - recognize the importance of contexts on individual, group and interpersonal dynamics;
 - engage in critical sociopolitical/historical/structural analyses;
 - use a multi-level and multidisciplinary structural analysis and perspective;
 - acknowledge and address the role of power and privilege in community action and social change efforts; and
 - identify goals for community change and the strategies and tactics to work with others towards these goals.

Declarations and Course Requirements

Thanks for your interest in the CASC minor. In order to declare the minor, please complete the following steps:

1. Attend an info session to find out more about the minor.
2. Complete this **online declaration form**.
3. Meet with an academic advisor. Make an **appointment online** or email **cascminor@umich.edu**.
4. Drop in hours will be held every Wednesday from 1 - 4pm in CASC office room 3640 for inquires about declarations.

Please note, SW 305 is not a pre-requisite to the CASC minor. You may begin taking any of the cluster area courses before taking SW 305 and before declaring the minor.

CASC Minor Info Sessions

Prospective students are welcome to join CASC info sessions for general information about the minor, to learn more about academic requirements, the process to declare, and the MSW preferred admissions program. Sessions will be hosted once a month in the School of Social Work. Visit the CASC events calendar for more information about the date, time, and location. Email **cascminor@umich.edu** for additional inquires.

The 16 credit Community Action and Social Change minor requirements include:

Foundation Course:

SW 305: Theories and Practices for Community Action and Social Change (3 credits, SS distribution credit for UM students enrolled prior to winter 2020)

This foundation course is designed to prepare students to be informed and active participants in the process of community building and social change. The course uses a multidisciplinary framework to develop competencies that will help students envision what community action and social change look like, identify and implement steps towards social change, build on positive sources of power, indigenous knowledge and experiences of individuals, groups, and communities who are engaged in social change efforts.

CASC Elective Clusters:

(12 credits, minimum of 3 credits in each cluster)

- **Context Cluster:** These electives provide students with a range of context, theories and multidisciplinary perspectives to support understanding of various community action and social change efforts
- **Diversity Learning Cluster:** These electives provide students with skills and learning opportunities to facilitate diversity learning to support community action and social change efforts
- **Action Service Learning Cluster:** These electives provide students with opportunities to engage in service learning opportunities to promote community action and social change initiatives
- **Additional 3 credits:** An additional 3 credits chosen from any cluster is also required to complete the minor

Note: Class substitutions may be made upon advisor approval.

SW 401: Capstone Course

Upon completion of core course and electives, students will enroll in a **one-credit capstone course** to develop an integrative learning project, in consultation with social work faculty advisors or other faculty steering committee members.

Comparative Literature Major

A major in Comparative Literature offers a flexible program for students to explore comparisons across various languages, cultures, periods, genres, and disciplines.

Undergraduate majors establish individualized programs of study in close consultation with a faculty advisor. These programs offer students the opportunity to increase skills in analytical reading and argumentative writing and to develop an understanding of the interrelationships among different literary, artistic, and cultural traditions. Students who major in Comparative Literature will acquire training in one or more second languages, study at least two literatures (one of which may be English) in the original languages, and acquaint themselves with some of the essential writings in literary and cultural theory. Students who choose to write a senior thesis will find it an opportunity for synthesis of earlier course work and further intellectual exploration.

Effective Fall 2022

Advising

Prospective majors should consult the Comparative Literature department advisor as early as possible about developing a challenging and unified interdepartmental program of study.

Prerequisites

Language skills necessary for the study of literature courses in a second language.

Requirements

Minimum Credits: 33

Students are required to complete a minimum of 33 credits, according to the following plan. 100-level courses do not count toward the major.

30 credits. A complementary grouping of literature courses. Students will combine COMPLIT courses with other elective courses in relevant departments and related fields, chosen from the **list of pre-approved courses** OR to be chosen in consultation with and approved by the Director of Undergraduate Studies, including

- At least 9 credits of **COMPLIT courses** at the 200 level or above. For those writing a senior thesis during the last term, COMPLIT 496 (3 credits) may be used.
- at least 12 credits in a second language
- An additional 9 credits in Comp Lit or other relevant departments. See the **list of pre-approved courses** and the “**Selecting courses in other departments**” guidance on the Comparative Literature website.
- 3 credits. The senior seminar, COMPLIT 495, is required for all students in the major.

Distribution Policy

No course used to fulfill a major requirement may be used toward the **LSA Distribution Requirement**. In addition, courses in the COMPLIT subject area may not be used toward the Distribution Requirement.

Honors

To be eligible for an Honors major in Comparative Literature, students should have a cumulative grade point average of at least a 3.4, and a 3.5 grade point average in courses counting toward the major. Students who elect an Honors degree will write an Honors thesis during the final year of their course work.

Complex Systems Minor

In recent decades, the ideas and methodologies that underpin the science of complex systems have gained a foothold in the research agendas of many of the world's leading universities. This trend can be explained by the resonance of the complexity paradigm and its focus on core concepts of networks, nonlinear interdependence, adaptation, and diversity to current scientific and social challenges and opportunities. These include climate change, epidemics, ecosystem and financial system robustness, genetic engineering, sustainability science, health sciences, and ethnic conflict.

Academic research on nonlinear systems, networks, evolutionary and adaptive systems, emergence, and diversity using mathematics, agent-based models, and numerical computation increases with each passing day at think tanks, universities, and laboratories. Most leading graduate programs in physical, biological, and social sciences now include courses that fall under the rubric of complexity science. Many of these courses involve agent-based modeling and numerical analysis. At the same time, there is growing demand in the government and private sectors for systems thinkers with skills in modeling.

The academic minor in Complex Systems is designed to give students an understanding of the basic concepts of complexity science and to learn how those concepts can be applied within a functional area. It provides an opportunity for majors in other departments to take a coherent curriculum in complexity and modeling that complements their major field of study. This academic minor requires foundational courses in complex systems theory and modeling. Students are encouraged to attend research seminars and reading groups run by the Center for the Study of Complex Systems (CSCS). This will provide an opportunity for undergraduates to engage intellectually with students and faculty from a range of fields.

Effective Winter 2023

Advising

Academic Minor Advising

The CSCS Director and core faculty will serve as advisors to students. The CSCS Chief Administrator and other administrative staff are initial points of contact. Students interested in scheduling a time to talk with an advisor can email cscs@umich.edu or stop by the office (suite 700 Weiser Hall) during business hours.

Prerequisites

There will be no formal prerequisites but students who have not taken calculus may find some of the courses difficult. Therefore, previous experience with calculus is strongly recommended.

Requirements

Minimum Credits: 15

Students are required to elect 15 credits (5 courses) as outlined below.

A. Core Courses. We require students to take at least **one** of the following.

- CMPLXSYS 270: Introduction to Agent-Based Modeling
- CMPLXSYS 391: Modeling Political Processes
- CMPLXSYS 501: Introduction to Complex Systems
- CMPLXSYS 511: Theory of Complex Systems

B. Complex Systems Courses. Students must select at least **two** additional courses from the following list:

- CMPLXSYS 270: Introduction to Agent-Based Modeling
- CMPLXSYS 251 / SOC 251: Computational Social Sciences
- CMPLXSYS 445 / BIOPHYS 445 / PHYSICS 445: Introduction to Information Theory for the Natural Sciences
- CMPLXSYS 260 / SOC 260: Tipping Points, Bandwagons and Cascades: From Individual Behavior to Social Dynamics
- CMPLXSYS 391: Modeling Political Processes
- CMPLXSYS 425: Evolution in Silico
- CMPLXSYS 430: Modeling Infectious Diseases
- CMPLXSYS 435: Ecological Networks
- CMPLXSYS 466 / EEB 466 / MATH 466: Mathematical Ecology
- CMPLXSYS 470 / PHYSICS 470: Experiments in Nonlinear Dynamics
- CMPLXSYS 501: Introduction to Complex Systems
- CMPLXSYS 511: Theory of Complex Systems
- CMPLXSYS 510 / MATH 550: Introduction to Adaptive Systems
- CMPLXSYS 520 / PHYSICS 580 / MATH 552: Empirical Analysis of Nonlinear Systems
- CMPLXSYS 530: Computer Modeling of Complex Systems
- CMPLXSYS 541 / PHYSICS 413: Introduction to Nonlinear Dynamics and the Physics of Complexity
- CMPLXSYS 535 / PHYSICS 508: Network Theory
- MO 410: Collective Intelligence

C. Elective Courses. Students may select additional courses from the following list to bring their minor credits to 15. One course not on this list may be counted with permission of the CSCS Director.

- CMPLXSYS 250 / PUBPOL 250: Social Systems, Energy, and Public Policy
- EEB 315 / ENVIRON 315: Ecology and Evolution of Infectious Diseases
- EEB 480: Interrogating Data with Models
- EECS 492: Introduction to Artificial Intelligence
- MATH 462: Mathematical Models
- MATH 463 / BIOINF 463 / BIOPHYS 463: Mathematical Modeling in Biology

- MICRBIOL 510: Mathematical Modeling for Infectious Diseases
- NRE 550: Systems Thinking for Sustainable Development
- SI 301: Social Information Processing
- SI 608: Networks
- EPID 633: Introduction to mathematical modeling in epidemiology and public health
- EPID 637: Systems modeling of behavior, social processes, and chronic disease
- BIOINF 540: Mathematics of Biological Networks

Complex Systems (Minor) (Fall 2011 - Fall 2022)

Effective Fall 2011

Advising

Academic Minor Advising

The CSCS Director and core faculty will serve as advisors to students. The CSCS Key Administrator, Mita Gibson, will be the initial point of contact.

Prerequisites

There will be no formal prerequisites but students who have not taken calculus may find some of the courses difficult. Therefore, previous experience with calculus is strongly recommended.

Requirements

Minimum Credits: 15

Students are required to elect 15 credits (5 courses) including two core courses and three electives from the following areas of focus: (1) social sciences, (2) biological science, (3) physical science and engineering or (4) complex systems theory and methods. Two of the electives are to be from one area and one from another.

A. **Core Courses** (Take 2 of 4). We require students to take at least one of the modeling courses so that students develop the skills necessary for the upper level classes.

- CmplxSYS 270: Introduction to Agent-Based Modeling (ABM)
- CmplxSYS 281 / POLSCI 381: Applied Complex Systems: Emergent
- Challenges (*through FA21 only*)
- CmplxSYS 391 / POLSCI 391: Modeling Pol Proc
- CmplxSYS 501: An Introduction to Complex Systems
- CmplxSYS 511: Theory of Complex Systems

B. **Elective Courses.** Students must take two courses from one section and one course from another section. The final course can be from this list or a course not on this list as long as it is approved by the CSCS Director. Additional cross-cutting courses such as MATH 295: Honors Mathematics I can also be taken as an elective and will count for any of the four areas, with approval from the CSCS Director.

I. Physical Science & Engineering

- BIOINF 463 / MATH 463 / BIOPHYS 463: Mathematical Modeling in Biology
- BIOPHYS 463 / MATH 463 / BIOINF 463: Mathematical Modeling in Biology

- CMPLXSYS 470 / PHYSICS 470: Experiments in Nonlinear Dynamics
- CMPLXSYS 520 / PHYSICS 580: Empirical Analysis of Nonlinear Systems
- CMPLXSYS 535 / PHYSICS 508: Network Theory
- CMPLXSYS 541 / PHYSICS 413: Introduction to Nonlinear Dynamics and the Physics of Complexity
- EECS 492: Introduction to Artificial Intelligence
- EECS 587: Parallel Computing
- EECS 598: Special Topics *section titled "Algorithms for Robotics"*
- ENGR 371 / MATH 371: Numerical Methods for Engineers and Scientists
- HONORS 493: College Honors Seminar *section titled "Introduction to Networks"*
- MATH 176: Explorations in Topology and Analysis (Nonlinear Systems and Chaos)
- MATH 371 / ENGR 371: Numerical Methods for Engineers and Scientists
- MATH 463 / BIOINF 463 / BIOPHYS 463: Mathematical Modeling in Biology
- MATH 471: Introduction to Numerical Methods
- PHYSICS 413 / CMPLXSYS 541: Introduction to Nonlinear Dynamics and the Physics of Complexity
- PHYSICS 470 / CMPLXSYS 470: Experiments in Nonlinear Dynamics
- PHYSICS 508 / CMPLXSYS 535: Network Theory
- PHYSICS 580 / CMPLXSYS 520: Empirical Analysis of Nonlinear Systems

II. Social Science

- CMPLXSYS 250: Social Systems & Energy
- CMPLXSYS 251 / SOC 251: Computational SocSci
- CMPLXSYS 260 / SOC 260: Tipping Points, Bandwagons and Cascades: From Individual Behavior to Social Dynamics
- EAS 550 / STRATEGY 566: Sys Devel&Enterprise
- EECS 594: Introduction to Adaptive Systems *section titled "Complexity & Emergence"*
- HONORS 493: College Honors Seminar *section titled "Complexity & Emergence"*
- MATH 217: Linear Algebra (*only until FA21*)
- MATH 425 / STATS 425: Introduction to Probability
- MO 410: Collective Intelligence
- NRE 550: Systems Thinking for Sustainable Development
- POLSCI 598: Mathematics for Political Scientists
- POLSCI 793: Methods Seminar *section titled "Advanced Modeling in Political Science"*
- PSYCH 447: Current Topics in Cognition and Perception *section titled "Complexity & Emergence"*
- PUBPOL 513: Calculus for Social Scientists
- SOC 260 / CMPLXSYS 260: Tipping Points, Bandwagons and Cascades: From Individual Behavior to Social Dynamics
- STATS 425 / MATH 425: Introduction to Probability
- STRATEGY 566: Systems Thinking for Sustainable Development

III. Biological Science

- BIOINF 800: Special Topics *section titled "Computation and Neuroscience"*

- BIOINF 463 / MATH 463 / BIOPHYS 463: Mathematical Modeling in Biology
- BIOPHYS 463 / MATH 463 / BIOINF 463: Mathematical Modeling in Biology
- CMPLXSYS 425 Evolution in Silico (W18)
- CMPLXSYS / EEB 435: Ecological Networks
- CMPLXSYS 430 Modeling Infectious Diseases
- CMPLXSYS 466 / EEB 466 / MATH 466: Mathematical Ecology
- CMPLXSYS 510 / MATH 550: Introduction to Adaptive Systems *section titled "Introduction to Dynamics for Biocomplexity"*
- EEB 315 / ENVIRON 315: The Ecology and Evolution of Infectious Diseases
- EEB 401: Advanced Topics in Biology *section titled "Interrogating Data with Models"*
- EEB 466 / MATH 466: Mathematical Ecology
- ENVIRON 315 / EEB 315: The Ecology and Evolution of Infectious Diseases
- MATH 463 / BIOINF 463 / BIOPHYS 463: Mathematical Modeling in Biology
- MATH 466 / EEB 466: Mathematical Ecology
- MATH 550 / CMPLXSYS 510: Introduction to Adaptive Systems *section titled "Introduction to Dynamics for Biocomplexity"*
- MATH 559: Selected Topics in Applied Mathematics *section titled "Computation and Neuroscience"*
- MICRBIOL 510: Mathematical Modeling for Infectious Diseases

IV. Theory & Methods

- BIOINF 800: Special Topics *section titled "Computation and Neuroscience"*
- BIOPHYS / CMPLXSYS / PHYSICS 445: Introduction to Information Theory for the Natural Sciences (*only if taken FA20 or later*)
- CMPLXSYS 501: Basic Readings
- CMPLXSYS 520 / PHYSICS 580 / MATH 552: Empirical Analysis of Nonlinear Systems
- CMPLXSYS 530: Computer Modeling of Complex Systems
- CMPLXSYS 531: Basic Computing Skills for Programming Agent Based Models (ABM)
- EECS 594: Introduction to Adaptive Systems *section titled "Complexity & Emergence"*
- HONORS 493: College Honors Seminar *sections titled "Complexity & Emergence" and "Introduction to Networks"*
- MATH 425 / STATS 425: Introduction to Probability
- MATH 462: Mathematical Models
- MATH 552 / CMPLXSYS 520 / PHYSICS 580: Empirical Analysis of Nonlinear Systems
- MATH 559: Selected Topics in Applied Mathematics *section titled "Computation and Neuroscience"*
- PHYSICS 580 / CMPLXSYS 520 / MATH 552: Empirical Analysis of Nonlinear Systems
- PSYCH 447: Current Topics in Cognition and Perception *section titled "Complexity & Emergence"*
- STATS 425 / MATH 425: Introduction to Probability

Computer Science Major

The program not only provides a solid foundation in computer software, hardware, and theory, but also gives the student ample opportunity to take advanced electives in areas of computer science such as databases, operating systems, security, networks, artificial intelligence, and graphics, or in emerging interdisciplinary areas such as cloud computing, smart phone or web apps, and computer game design.

Effective Fall 2022

Grade Policies

Students may repeat a pre-major course once, for a maximum of two attempts at each course, and only the final grade for the course will be used to compute the premajor GPA. Only courses with grades of C+ or below can be repeated for this purpose.

Grades of C or better must be achieved in all courses taken to satisfy Computer Science requirements.

Prerequisites

To declare in the LSA Computer Science (CS) major a student must first complete 4 pre-courses for the major. These are: EECS 203 or MATH 465* or MATH 565*, EECS 280, MATH 115, MATH 116. Performance in these classes is indicative of student aptitude for the Computer Science program, and students who do not perform well are encouraged to meet with a CS-LSA advisor. (*Note that MATH 465/565 require significantly more mathematical background than does EECS 203. Speak to an advisor before selecting these courses.)

Due to capacity constraints, students who are admitted to the University of Michigan in Fall 2023 or later must first be selected for the CS major before they can declare the major.

Requirements

At least 27 credits must be upper-level.

1. **Core Courses:**
 - a. *Computer Science:* EECS 281, 370, 376.
 - b. *Probability and Statistics:* STATS 206, 250, 280, 412, 426, STATS 265/IOE 265, ECON 451 (F17), or TO 301 (F17).
2. **Capstone Course** (which may not be counted as CS Upper Level Technical Elective below): *Senior Thesis* (EECS 443), *Major Design Experience Course* (check with the department for current list of approved MDE courses), or *Social Computing Systems* (EECS 480) (*only if elected FA19 or later*).
3. **Upper-Level CS Technical Electives.** 16 credits. Check with the department for an up-to-date list of approved Upper Level CS elective courses. The department can suggest groupings of electives that pursue different tracks such as software development, robotics, or bioinformatics, among various others.

Comprehensive and up-to-date information about the computer science program can be found on the web at: <https://cse.engin.umich.edu/academics/undergraduate/computer-science-lsa/>

Distribution Policy

No course used to fulfill a major requirement may be used toward the LSA Distribution Requirement. In addition, courses in the EECS subject area may not be used toward the Distribution Requirement.

Honors

Students wishing to complete an Honors major in Computer Science must have earned a 3.2 or higher GPA in the four required pre-courses for the major (MATH 115, 116, EECS 203 and 280). Student must also have earned an overall GPA of 3.4 or higher (as required by LSA for Honors), and must have a final major GPA in Computer Science of 3.5 or higher. Students must complete the Senior Thesis course (EECS 443), write a thesis, and make an oral presentation of the thesis results, with the faculty advisor and a second faculty member determining whether the thesis is of a quality that qualifies the students for Honors.

Computer Science Minor

The program not only provides a solid foundation in computer software, hardware, and theory, but also gives the student ample opportunity to take advanced electives in areas of computer science such as databases, operating systems, security, networks, artificial intelligence, and graphics, or in emerging interdisciplinary areas such as cloud computing, smart phone or web apps, and computer game design.

Effective Fall 2022

Exclusions:

A minor in Computer Science is not open to students with a major in the Department of Electrical Engineering and Computer Science. Since Data Science is owned jointly by the department of Statistics and EECS, DS-LSA and DS-Eng students are not eligible for the CSMinor.

Grade Policies

Grades of C or better must be achieved in all courses taken to satisfy Computer Science requirements.

Prerequisites

MATH 115, and prior programming experience: EECS 183, ENGR 101, or their equivalent.

You must satisfy the prerequisites before declaring. The best time to declare is during or after the academic term you take your first core course (EECS 203 or 280). Note that you will need to declare before you will be allowed to enroll in any of the electives.

Requirements

Minimum Credits: 16

1. **Three Core Courses** (4 credits each):
 - EECS 203: Discrete Mathematics
 - EECS 280: Programming and Introductory Data Structures
 - EECS 281: Data Structures and Algorithms

EECS 281 has both EECS 203 and 280 as prerequisites. All of the electives have

EECS 281 as a prerequisite. Thus, completing the minor requires a minimum of three academic terms.

2. **Approved CS Minor Elective Course:** 4 credits. Check with the department for an up-to-date list of approved elective courses for the minor.

Creative Writing Minor

Students wishing to pursue an academic minor in Creative Writing must develop a specific plan for its completion in consultation with an English Department undergraduate advisor.

Being able to work creatively with ideas through words is elemental to a humanistic education, and can complement information-based learning in productive and exciting ways. An academic minor in Creative Writing allows students with a strong interest in the writing of either poetry or prose fiction to develop and explore their craft through both workshop-formatted courses as well as through courses in literary history.

Effective Winter 2019

Exclusions:

Not open to students with a major in English, a major in Creative Writing in the Residential College, a minor in English, or a minor in Writing through the Sweetland Center for Writing.

Advising

Students are encouraged to discuss their academic program and related concerns with an English department advisor. Appointments are scheduled on the English Department's website under academic advising. For questions of immediate concern or general questions about the major, students may speak with the Undergraduate Administrator by phoning 734.764.6330 or by coming to 3187 Angell Hall.

Peer Advising Program

The English Undergraduate Office offers Peer Advising hours where students can come in and ask questions about the various programs and declare their major while getting a student's perspective on what it's like to be an English major. Check on the website or in the main office for their advising hours.

Grade Policies

All courses taken in the English creative writing minor must be C- or better.

The English creative writing minor GPA will be calculated using all English courses taken toward the minor (including the pre-requisite course, 298).

Prerequisites

ENGLISH 223.

Students may declare a creative writing minor in consultation with an English Creative Writing Advisor. Appointments are scheduled at <http://www.lsa.umich.edu/english/undergraduate/advising/appts.asp>.

Requirements

Minimum Credits: 15

15 credits, including:

- An intermediate and advanced course in Creative Writing in one area of focus (total 6 credits): ENGLISH 323/423, prose fiction; ENGLISH 324/424, poetry; or ENGLISH 325/425, creative nonfiction)

Note: English 423, 424, or 425 will also satisfy the Upper-Level Writing Requirement.

- Three English literature courses (9 credits) at the 200-level or above.
 - At least one of these courses (3 credits) must be at the 300-level or above.
 - One Creative Writing course at the 300 or 400-level in a genre other than the student's primary focus may be used toward this requirement.
 - Eligible 200-level courses for this requirement are:
 - ENGLISH 201: Readings in U.S. Literatures: "American" and Other Fictions
 - ENGLISH 203: Intro to Rhetoric
 - ENGLISH 215: Great Women Writers
 - ENGLISH 216: Intro to Disability Studies
 - ENGLISH 221: Literature Outside the Classroom
 - ENGLISH 230: Intro to Short Story and Novel
 - ENGLISH 232: Intro to Visual Cultures
 - ENGLISH 235: Intro to Autobiography
 - ENGLISH 240: Poetry for Non-majors
 - ENGLISH 242: Interdisciplinary Studies in English
 - ENGLISH 244: Introduction to Literary Journalism
 - ENGLISH 245: Intro to Drama and Theatre
 - ENGLISH 250: Intro to Language Studies
 - ENGLISH 258: Bible as Literature
 - ENGLISH 260: Intro to British Literature
 - ENGLISH 267: Shakespeare and his World
 - ENGLISH 270: Intro to American Lit
 - ENGLISH 274: Intro to Afro-American Lit
 - ENGLISH 275: Intro World Lit in English
 - ENGLISH 280: Intro to Digital Cultures
 - ENGLISH 282: Native American Literature
 - ENGLISH 285: Intro to 20th C Lit
 - ENGLISH 290: Topics in Lang & Lit
 - ENGLISH 292: Themes in Lang & Lit (mini-course)
 - ENGLISH 293: Great Works of Lit (mini-course)

Residency

One course from transfer credit or study abroad may be used toward elective English creative writing minor credits.

Creative Writing & Literature Major

Creative Writing and Literature Majors write fiction, poetry, and creative nonfiction under the close guidance of faculty mentors and may workshop their writing with other student writers in small writing seminars. Majors also study the art of writing through the study of literature. Majors specialize in fiction/creative nonfiction, poetry, or digital storytelling early in their studies.

Effective Winter 2020

Exclusions:

Not open to those electing the minor in Writing or the minor in Creative Writing.

Advising

1813 East Quadrangle
(734) 647-2745
www.lsa.umich.edu/rc

The Residential College (RC) is a four-year undergraduate liberal arts program with about 900 students and 60 faculty, situated within LSA. All RC advisors are RC faculty members and are available to meet with students to discuss RC and LSA requirements, possible majors, graduation requirements, etc. The RC Board on Academic Standing considers petitions submitted by RC students relating to requirements, deadlines, and academic circumstances. Appointments with academic advisors can be scheduled by calling the RC Academic Services Office at (734) 647-2745 or by stopping by the offices at 1813 East Quadrangle.

Prerequisites

None.

Requirements

Minimum Credits: 28

Students wishing to pursue a sustained practice in creative writing take a combination of writing courses in a selected genre and literature courses, distributed as follows:

1. A minimum of four creative writing classes, three at the upper level (300 and above), mixing seminars (RCHUMS 220, 221, 222, 242, 320, 321, 322) and tutorials (RCHUMS 325, 326, 425,426)
2. A minimum of five upper level (300 and above) literature courses at least one of which must be ancient (RCHUMS 309, CLCIV 390, ENGLISH 401) or medieval (RCHUMS 310, ENGLISH 370) literature.

Distribution Policy

No course used to fulfill a major requirement may be used toward the LSA Distribution Requirement.

Crime and Justice Minor

The past thirty years have seen a dramatic increase in prison populations — fueled by the

centrality of crime and fear of crime to American politics. This minor melds concepts from the history of crime and criminal law, theories of crime and punishment, and societal circumstances that propel unequal demographics of criminality.

Effective Winter 2019

Exclusions:

A minor in C&J is not open to students pursuing a major in the Dept of Sociology with an LJSC subplan nor to students majoring in Social Theory and Practice in the RC.

Students electing the Crime and Justice minor may not declare a minor in History of Law and Policy.

Advising

1813 East Quadrangle
(734) 647-2745
www.lsa.umich.edu/rc

The Residential College (RC) is a four-year undergraduate liberal arts program with about 900 students and 60 faculty, situated within LSA. All RC advisors are RC faculty members and are available to meet with students to discuss RC and LSA requirements, possible majors, graduation requirements, etc. The RC Board on Academic Standing considers petitions submitted by RC students relating to requirements, deadlines, and academic circumstances. Appointments with academic advisors can be scheduled by calling the RC Academic Services Office at (734) 647-2745 or by stopping by the offices at 1813 East Quadrangle.

Students wishing to pursue an academic minor must develop a specific plan for its completion in consultation with the program's designated advisor.

RC academic minors are open to all LSA students

Prerequisites

None for the Academic minor *per se*, although individual courses elected to meet the requirements of the minor may have course prerequisites.

Requirements

Minimum Credits: 15

A minimum of five courses (at least 15 credits), to be elected from categories as stated:

1. **Core Course:** SOC 368. Criminology
2. **Electives.** One course from each of the following three areas (at least two of which must be at the 300-level and above).
No more than three courses may be selected from any single department or program.
 - A. *Contexts and Social Perspectives on the Problems of Crime and Punishment*
 - AAS 262 / HISTORY 272: The Modern Civil Rights Movement
 - AAS / SOC 303: Race and Ethnic Relations
 - AAS 322 / ENVIRON 335: Introduction to Environmental Politics: Race, Class and Gender

- AAS 324: Dealing with the Past : Doing Justice in Africa: South Africa, Rwanda, Sierra Leone
- AAS / RCSSCI 330: Urban and Community Studies, I
- AAS 334 / AMCULT 336: Popular Culture in Contemporary Black America
- AAS 420 / ANTHRCUL 347: Race and Ethnicity
- AAS 426 Urban Redevelopment and Social Justice
- AAS / SOC 434: Social Organization of Black Communities
- AAS 454 / ANTHRCUL 453 African-American Culture
- AMCULT / SOC 304: American Immigration
- AMCULT 336 / AAS 334: Popular Culture in Contemporary Black America
- AMCULT 337: A Survey of American Blues Music
- AMCULT / HISTORY 369: U.S. Mass Culture from Minstrelsy to Hip Hop
- AMCULT / HISTORY 374: Politics and Culture of the “Sixties”
- AMCULT 399: Race in America
- AMCULT 421 / SOC 423: Stratification
- ANTHRCUL 235: Anthropology of Crime, Criminalization and Punishment (*only if elected Fall 2019 or later*)
- ANTHRCUL 347 / AAS 420: Race and Ethnicity
- ANTHRCUL 453 / AAS 454 African-American Culture
- ARCH / UP 357 Architecture, Sustainability, and the City: Ideas, Force, and People Shaping the Built Environment
- CEE 307 / ENVIRON 407: Sustainable Cities
- COMM / PSYCH 318: Media and Violence
- ENVIRON 222: Introduction to Environmental Justice
- ENVIRON 335 / AAS 322: Introduction to Environmental Politics: Race, Class and Gender
- ENVIRON 407 / CEE 307: Sustainable Cities
- ENVIRON 408: Land Use Policy, Law, and the Environment
- HISTORY 272 / AAS 262: The Modern Civil Rights Movement
- HISTORY / AMCULT 369: U.S. Mass Culture from Minstrelsy to Hip Hop
- HISTORY / AMCULT 374: Politics and Culture of the “Sixties”
- HISTORY / WGS 375 (WGS 375): History of Witchcraft: The 1692 Salem Trials in Historical and Cross-Cultural Perspective
- PHIL 224: Global Justice
- PHIL 355: Contemporary Moral Problems
- POLSCI 307: Topics in American Political Thought
- POLSCI 319 Politics of Civil Liberties and Civil Rights
- PSYCH 318 / COMM 318: Media and Violence
- RCSSCI / AAS 330: Urban and Community Studies, I
- SOC / AAS 303: Race and Ethnic Relations
- SOC / AMCULT 304: American Immigration
- SOC 423 / AMCULT 421: Stratification
- SOC / AAS 434: Social Organization of Black Communities
- SOC 435: Urban Inequality and Conflict
- UP / ARCH 357 Architecture, Sustainability, and the City: Ideas, Force, and People Shaping the Built Environment
- WGS 375 (WGS 375) / HISTORY 375: A History of Witchcraft: The 1692 Salem Trials in Historical and Cross-Cultural Perspective

B. *Disciplinary Studies of the Problems of Crime and Punishment*

- AAS 248: Crime, Race, and the Law
- AAS 450 / 451: Law, Race and the Historical Process I, II
- ANTHRCUL 333: Non-Western Legal Systems
- ANTHRCUL / WGS 428 (WGS 428) / RCSSCI 428: Sex Panics in the U.S. and UK since 1890
- COMM 425: Internet, Society, and the Law
- HISTORY / JUDAIC 265: Introduction to Jewish Law: Sources, Legal History, and Legal Theory
- HISTORY / JUDAIC 257: Law in the Pre-modern World
- HISTORY 345 / RCSSCI 357: History and Theory of Punishment
- HISTORY 477: Law, History, and the Dynamics of Social Change
- HISTORY 496: History Colloquium (appropriate topics may count, with permission)
- HISTORY 497: History Colloquium (*section titled "War on Crime / War on Drugs"*; other appropriate topics may count, with permission)
- JUDAIC / HISTORY 257: Law in the Pre-modern World
- JUDAIC / HISTORY 256: Introduction to Jewish Law: Sources, Legal History, and Legal Theory
- PHIL 359: Law and Philosophy
- POLSCI 364: Public International Law
- PSYCH 488 / SOC / WGS 465 (WGS 465): Sociological Analysis of Deviance
- RCSSCI 357 / HISTORY 345: History and Theory of Punishment
- RCSSCI / ANTHRCUL / WGS 428 (WGS 428): Sex Panics in the U.S. and UK since 1890
- SOC / WGS 270 (WGS 270): Gender and the Law
- SOC 454: Law and Society
- SOC 465 / PSYCH 488 / WGS 465 (WGS 465): Sociological Analysis of Deviance
- WGS 270 (WGS) / SOC 270: Gender and the Law
- WGS 428 (WGS) / ANTHRCUL / RCSSCI 428: Sex Panics in the U.S. and UK since 1890
- WGS 465 (WGS 465) / PSYCH 488 / SOC 465: Sociological Analysis of Deviance

C. *Direct Encounters with the Problems of Crime and Punishment*

- ARTDES 312: Art Workshops in Prison
- PSYCH 211: Project Outreach (appropriate sections)
- RCCORE 301: Community-Based Internship – Semester in Detroit (appropriate placements)
and
RCCORE 302: Community-Based Internship Reflection Seminar
- RCCORE 334: Special Topics *section titled "The Atonement Project"*
- RCHUMS 334: Special Topics in the Humanities *section titled "Theater and Incarceration"*
- THTREMUS 399: Topics in Drama *section titled "The Atonement Project"*

Cultures and Literatures of Eastern Europe

Minor

The minor in Cultures and Literatures of Central Europe is intended for students interested in developing their knowledge and understanding of Slavic studies but who are unable to dedicate time to language study to complete a rigorous program of study.

This minor affords such students the opportunity to build their new interest into a recognized program of academic study with a framework that would enable coordinated study over several terms. This program has been designed specifically for students who have either:

- become interested in Slavic studies later in their academic careers and are thus unable to complete a language requirement; or
- demanding majors that do not include flexibility to take on an extensive course of language study but are interested in the literatures and culture of Eastern Europe.

The minor is divided between Russian Studies, and Polish, BCS, Czech, Eastern-European Jewish studies, and cross-cultural Slavic studies (reflecting the overall distribution of course offerings in the Dept). Students must take courses from both of these groups, and may choose to specialize in Russian studies, or in one or more other areas of Eastern and Central European culture. Thus, a student completing this minor will have acquired relatively detailed knowledge in at least one area of the department's specialization, while also having been exposed to the diversity of cultures found between the Danube and the Pacific Ocean.

Effective Winter 2013

Exclusions:

Academic minors in Slavic Languages and Literatures are not open to those electing a major or any other academic minor in the department of Slavic Languages and Literatures, nor to those electing a major in the Center for Russian, East European, and Eurasian Studies (REES). Students may concurrently pursue an academic minor in both REES and Slavic with the following restrictions:

1. REES minors may not count any courses for which Slavic is the home unit
2. Slavic minors may not count REES 397 or any courses for which REES is the home unit, which includes SLAVIC 395 and 396.

Advising

Students wishing to pursue an academic minor in the Department of Slavic Languages and Literatures must develop a specific plan for its completion in consultation with Professor Michael Makin, the department's designated advisor.

Appointments are scheduled online at www.lsa.umich.edu/slavic/undergraduate/advising

Prerequisites

None. No knowledge of the languages of Eastern Europe is required.

Requirements

Minimum Credits: 15

At least **fifteen credits** elected in the following courses in Eastern European Literatures and Cultures, of which only one course may be below the 300-level. Students may take as many courses as they like in one of the two groups, but must elect a **minimum of six credits** in the other group:

Group A:

- POLISH 214, 215, 314, 325, 326;
- CZECH 315, 484;
- BCS 436;
- SLAVIC 225, 240, 245 (W19), 261 (W19), 270, 281, 312, 470, 471 (W19), 481, 488, 490.

Group B:

- SLAVIC 313, 315, 316;
- RUSSIAN 231, 322, 346, 347, 348, 356, 358, 361, 375 (W19), 444, 450, 453, 454, 460, 462, 463, 464, 466, 467, 468, 469, 473, 474.

Czech Language, Literature, and Culture Minor

The minor in Czech Language, Literature, and Culture is designed to give students a fundamental competence in Czech language upon which they can build, as well as a knowledge of some of the major cultural achievements and individual masterpieces of Czech literature and cinema.

The intended audience comprises all undergraduates with substantial interest in Czech studies. Such students might include those who envision doing professional work in the Czech Republic, those intending to pursue graduate work in areas related to Czech culture and society, as well as those who may wish to learn more about their own heritage.

The minor presents the opportunity to gain basic competence in Czech language, upon which one can build toward whatever higher level of proficiency one requires. Furthermore, the minor gives students exposure to and knowledge of the work of some of the major figures in Czech culture, including such internationally acclaimed authors as Jaroslav Hašek, Karel Capek, and Milan Kundera, as well as the Nobel Prize winning poet Jaroslav Seifert. The ways in which Czech culture met the challenges of World War II, and of the subsequent forty years of Communist rule, is given major emphasis in several of the courses. Students may also learn about the important contributions of Czech filmmakers to world culture. Thus, the minor will have substantial value for all students who have an intellectual interest in Czech culture, even in cases where Czech studies do not figure directly in the student's career plans. This might be the case particularly for students who trace part of their own family heritage to the Czech lands. Finally, several of the courses address question about ethnic discriminations as they have been dealt with in literature and film, a feature which would deepen students' understanding through the

comparative perspective it would provide.

Effective Fall 2012

Exclusions:

Academic minors in Slavic Languages and Literatures are not open to those electing a concentration or any other academic minor in the department of Slavic Languages and Literatures, nor to those electing a concentration in the Center for Russian, East European, and Eurasian Studies (REES). Students may concurrently pursue an academic minor in both REES and Slavic with the following restrictions:

1. REES minors may not count any courses for which Slavic is the home unit
2. Slavic minors may not count REES 397 or any courses for which REES is the home unit, which includes SLAVIC 395 and 396.

Advising

Students wishing to pursue a minor in the Department of Slavic Languages and Literatures must develop a specific plan for its completion in consultation with the department's designated advisor, Jindrich Toman. Appointments are scheduled online at www.lsa.umich.edu/slavic/undergraduate/advising.

Prerequisites

CZECH 241 or equivalent.

Requirements

Minimum Credits: 16

16 credits of courses, including CZECH 242 (4 credits) and 12 credits in courses selected from the following two categories, with at least 6 credits from category B.

Category A: Courses on Central European Slavic Culture (no more than 6 credits from Category A may count in the minor):

- SLAVIC 225: Arts and Cultures of Central Europe
- SLAVIC / RCHUMS 312: Central European Cinema
- SLAVIC 423: Central European Literature in the Twentieth Century

Students may count up to 3 credits of Third-Year Czech (CZECH 341 and 342) toward the minor.

Category B: Courses on Czech culture, literature, and cinema (at least 6 credits are required from Category B):

- CZECH / FTVM 315: Czech Cinema
- CZECH 480: Supervised Czech Reading
- CZECH 483: Czech Literature from the Middle Ages to the Enlightenment
- CZECH 484: Modern Czech Literature
- SLAVIC 470: Topics in Cultural Studies of Central, Eastern, and Southern Europe (appropriate sections)

- SLAVIC 490: Issues of the Cultures of Eastern Europe (appropriate sections)

Data Science Major

Data Science is a multidisciplinary undergraduate major, co-located in the College of Engineering (CoE) and the College of Literature, Science, and the Arts (LSA) and is jointly managed by the Division of Computer Science and Engineering (CSE) in the College of Engineering (CoE) and the Department of Statistics in LSA. The students from CoE will receive a BSE in Data Science and the students in LSA will receive a B.S. with a Data Science major.

The program draws on our expertise in Computer Science, Statistics, and Mathematics, complementing them with exposure to application domains to provide a multidisciplinary degree to develop future generations of data scientists. To provide exposure to application domains and to broader issues in data science, the data science program will include technical electives from LSA, Engineering, School of Information, and other U-M schools and colleges.

The undergraduate program in Data Science will provide sufficient background in mathematics (linear algebra and advanced calculus) and build a strong foundation in data science, covering data structures, algorithms, database management, and machine learning (courses in Computer Science) and data collection, data mining, modeling, and inference (Statistics). The Data Science program is designed to produce students with a deeper and broad intellectual understanding of both statistical and computing principles when working with big data, with those principles being applicable to a variety of domains. Students completing this program should be able to:

- find excellent jobs in industry where substantial experience in data science is desired
- attend graduate schools to pursue research in data science-related areas.

Effective Winter 2023

Exclusions:

Those completing the major in Data Science may not earn a minor in Computer Science or Statistics.

Advising

Faculty advisors are available on both Central and North campuses with a common coordinator across the two programs.

Grade Policies

A grade of C or higher is required for all the required courses including the four required mathematics courses, all the EECS and STATS courses used toward the degree requirements, all the advanced technical electives in Data Science used toward the degree requirements and the capstone experience course.

The grade requirement applies to these courses irrespective of whether they are pre-major or major requirements.

Prerequisites

(each with minimum grade of C or higher)

- *Calculus*: MATH 115, 116, and 215 (each completed with a minimum grade of C or higher)
- *Linear Algebra*: MATH 214 or 217 (completed with a minimum grade of C or higher)
- *Introductory Programming*: One of EECS 183, ENGR 101, or ENGR 151

Requirements

Minimum Credits: 42

A minimum of 42 credits is required (each with a minimum grade of C or higher), distributed as follows.

I. Core:

1. *Computing and Discrete Mathematics*
 - EECS 203: Discrete Mathematics (preferred)
or
MATH 465: Introduction to Combinatorics
 - EECS 280: Programming and Elementary Data Structures.
2. *Computing and Statistics*
 - EECS 281: Data Structures and Algorithms.
 - STATS 412: Introduction to Probability and Statistics.
 - STATS 413: The General Linear Model and Its Applications
3. *Machine learning and data mining* (minimum 4 credits):
 - EECS 445: Machine Learning
or
▪ STATS 415: Data Mining
4. *Data management and applications* (minimum 4 credits):
 - EECS 484: Database Management Systems
or
▪ EECS 485: Web Database and Information Systems
5. *Data Sciences Applied to a Domain* (minimum 4 credits): A student must take at least one 400-level or higher course in which data science techniques are applied to a domain area.
 - 400+ courses in Statistics and CSE on analytics in healthcare human behavioral analytics, financial analytics
 - 400+ level courses in bioinformatics (specify: is this bioinformatics courses in any SUBJECT or courses in BIOINF)

- II. **Capstone Experience.** One course of at least 4 credits approved as satisfying the Data Science Capstone Experience requirement. STATS 485 and the proposed Data Science-oriented CSE courses that also meet the Major Design Experience (MDE) requirements as playing this role.

If a student takes a required course that can also be used to provide capstone experience, the student must either not double count the credits or make up any overlapping credits by taking advanced elective courses.

- III. **Advanced Technical Electives in Data Science:** At least 8 credits of advanced technical electives (at the 300-level or higher) that build on the foundation provided by the core courses and includes courses in data collection methods, scientific visualization,

algorithms, security and privacy, mathematical modeling in biology, biostatistics, and optimization techniques. These courses must be selected from the list of courses below, or other courses by exception selected with advisor approval prior to taking the course.

- BIOINF 463 / BIOPHYS 463 / MATH 463: Mathematical Modeling in Biology
- BIOINF 527: Introduction to Bioinformatics & Computational Biology
- BIOINF 545 / STATS 545 / BIOSTAT 646: High Throughput Molecular Genomic and Epigenomic Data Analysis
- BIOINF 547 / MATH 547 / STATS 547: Probabilistic Modeling in Bioinformatics
- BIOPHYS 463 / BIOINF 463 / MATH 463: Mathematical Modeling in Biology
- BIOSTAT 449 / STATS 449: Topics in Biostatistics
- BIOSTAT 646 / BIOINF 545 / STATS 545: High Throughput Molecular Genomic and Epigenomic Data Analysis
- EECS 388: Introduction to Computer Security
- EECS 442: Computer Vision
- EECS 467: Autonomous Robotics
- EECS 477: Introduction to Algorithms
- EECS 484: Database Management Systems
- EECS 485: Web Database and Information Systems
- EECS 492: Introduction to Artificial Intelligence
- EECS 498: Special Topics (approved sections only. By default, EECS 498 sections will not count towards the Data Science advanced technical electives)
- EECS 4xx: Data Science and Healthcare
- EECS 4xx: Data Science and Human Behavior and Emotion Analytics
- EECS 545: Machine Learning
- EECS 549 / SI 650: Information Retrieval
- IOE 310: Introduction to Optimization Methods
- MATH 463 / BIOINF 463 / BIOPHYS 463: Mathematical Modeling in Biology
- MATH 547 / STATS 547 / BIOINF 547: Probabilistic Modeling in Bioinformatics
- MATH 548 / STATS 548: Computations in Probabilistic Modeling in Bioinformatics
- SI 639: Web Archiving
- SI 649: Information Visualization
- SI 650 / EECS 549: Information Retrieval
- STATS 403: Introduction to Quantitative Research Methods
- STATS 406: Introduction to Statistical Computing
- STATS 414: Special Topics in Statistics, section titled “ Introduction to Bayesian Data Analysis”
- STATS 426: Introduction to Theoretical Statistics
- STATS 449 / BIOSTAT 449: Topics in Biostatistics
- STATS 470: Introduction to Design of Experiments
- STATS 480: Survey Sampling Techniques
- STATS 508: Statistical Analysis of Financial Data
- STATS 531: Analysis of Time Series
- STATS 545 / BIOINF 545 / BIOSTAT 646: High Throughput Molecular Genomic and Epigenomic Data Analysis
- STATS 547 / MATH 547 / BIOINF 547: Probabilistic Modeling in Bioinformatics
- STATS 548 / MATH 548: Computations in Probabilistic Modeling in Bioinformatics

Other Department Policies

Dual Majors with Computer Science

For a dual major with Computer Science, the student will need to take an additional 14 credits in pertinent technical subjects, with advisor approval in both Computer Science and Data Science, beyond satisfying the requirements for each of the majors.

Residency

A minimum of fifteen (15) credits for the major must be taken on the Ann Arbor campus.

Distribution Policy

No course used to fulfill a major requirement may be used toward the LSA Distribution Requirement. In addition, courses in the STATS subject area may not be used toward the Distribution Requirement.

Honors

Any LSA Data Science student with a current grade point average of at least 3.4 may apply for admission to the LSA Data Science Honors major program. Such application is made through a Statistics Department undergraduate advisor. Students in the Honors program must complete the regular major program with an overall GPA of at least 3.5. In addition, LSA Data Science Honors majors must elect the Senior Honors Seminar (STATS 499) and complete a project or a thesis under the direction of a member of the Statistics Department or EECS faculty.

Data Science (Major) (Winter 2021 - Fall 2022)

Effective Winter 2021

Exclusions:

Those completing the major in Data Science may not earn a minor in Computer Science or Statistics.

Advising

Faculty advisors are available on both Central and North campuses with a common coordinator across the two programs.

Grade Policies

A grade of C or higher is required for all the required courses including the four required mathematics courses, all the EECS and STATS courses used toward the degree requirements, all the advanced technical electives in Data Science used toward the degree requirements and the capstone experience course.

The grade requirement applies to these courses irrespective of whether they are pre-major or major requirements.

Prerequisites

(each with minimum grade of C or higher)

- *Calculus:* MATH 115, 116, and 215 (each completed with a minimum grade of C or higher)
- *Linear Algebra:* MATH 214 or 217 (completed with a minimum grade of C or higher)

- *Introductory Programming*: One of EECS 183, ENGR 101, or ENGR 151

Requirements

Minimum Credits: 42

A minimum of 42 credits is required (each with a minimum grade of C or higher), distributed as follows.

I. Core:

1. *Computing and Discrete Mathematics*
 - EECS 203: Discrete Mathematics (preferred)
or
MATH 465: Introduction to Combinatorics
 - EECS 280: Programming and Elementary Data Structures.
2. *Computing and Statistics*
 - EECS 281: Data Structures and Algorithms.
 - STATS 412: Introduction to Probability and Statistics.
 - STATS 413: The General Linear Model and Its Applications
3. *Machine learning and data mining* (minimum 4 credits):
 - EECS 445: Machine Learning
or
 - STATS 415: Data Mining
4. *Data management and applications* (minimum 4 credits):
 - EECS 484: Database Management Systems
or
 - EECS 485: Web Database and Information Systems
5. *Data Sciences Applied to a Domain* (minimum 4 credits): A student must take at least one 400-level or higher course in which data science techniques are applied to a domain area.
 - 400+ courses in Statistics and CSE on analytics in healthcare human behavioral analytics, financial analytics
 - 400+ level courses in bioinformatics (specify: is this bioinformatics courses in any SUBJECT or courses in BIOINF)

- II. **Capstone Experience.** One course of at least 4 credits approved as satisfying the Data Science Capstone Experience requirement. STATS 485 and the proposed Data Science-oriented CSE courses that also meet the Major Design Experience (MDE) requirements as playing this role.

If a student takes a required course that can also be used to provide capstone experience, the student must either not double count the credits or make up any overlapping credits by taking advanced elective courses.

- III. **Advanced Technical Electives in Data Science:** At least 8 credits of advanced technical electives (at the 300-level or higher) that build on the foundation provided by the core courses and includes courses in data collection methods, scientific visualization, algorithms, security and privacy, mathematical modeling in biology, biostatistics, and optimization techniques. These courses must be selected from the list of courses below, or other courses by exception selected with advisor approval prior to taking the course.
- BIOINF 463 / BIOPHYS 463 / MATH 463: Mathematical Modeling in Biology
 - BIOINF 527: Introduction to Bioinformatics & Computational Biology

- BIOINF 528: Structural Bioinf
- BIOINF 545 / STATS 545 / BIOSTAT 646: High Throughput Molecular Genomic and Epigenomic Data Analysis
- BIOINF 547 / MATH 547 / STATS 547: Probabilistic Modeling in Bioinformatics
- BIOPHYS 463 / BIOINF 463 / MATH 463: Mathematical Modeling in Biology
- BIOSTAT 449 / STATS 449: Topics in Biostatistics
- BIOSTAT 646 / BIOINF 545 / STATS 545: High Throughput Molecular Genomic and Epigenomic Data Analysis
- COGSCI 445: Machin Learn for NLP
- EECS 388: Introduction to Computer Security
- EECS 442: Computer Vision
- EECS 467: Autonomous Robotics
- EECS 477: Introduction to Algorithms
- EECS 484: Database Management Systems
- EECS 485: Web Database and Information Systems
- EECS 492: Introduction to Artificial Intelligence
- EECS 498: Special Topics (approved sections only. By default, EECS 498 sections will not count towards the Data Science advanced technical electives)
- EECS 545: Machine Learning
- EECS 549 / SI 650: Information Retrieval
- IOE 310: Introduction to Optimization Methods
- IOE 413: Optim Mod Hlth Care
- MATH 463 / BIOINF 463 / BIOPHYS 463: Mathematical Modeling in Biology
- MATH 547 / STATS 547 / BIOINF 547: Probabilistic Modeling in Bioinformatics
- MATH 548 / STATS 548: Computations in Probabilistic Modeling in Bioinformatics
- SI 639: Web Archiving
- SI 649: Information Visualization
- SI 650 / EECS 549: Information Retrieval
- STATS 403: Introduction to Quantitative Research Methods
- STATS 406: Introduction to Statistical Computing
- STATS 414: Special Topics in Statistics, section titled “Introduction to Bayesian Data Analysis”
- STATS 426: Introduction to Theoretical Statistics
- STATS 449 / BIOSTAT 449: Topics in Biostatistics
- STATS 470: Introduction to Design of Experiments
- STATS 480: Survey Sampling Techniques
- STATS 508: Statistical Analysis of Financial Data
- STATS 531: Analysis of Time Series
- STATS 545 / BIOINF 545 / BIOSTAT 646: High Throughput Molecular Genomic and Epigenomic Data Analysis
- STATS 547 / MATH 547 / BIOINF 547: Probabilistic Modeling in Bioinformatics
- STATS 548 / MATH 548: Computations in Probabilistic Modeling in Bioinformatics

Other Department Policies

For the purposes of fulfilling the 60-credits outside of the major requirement, all course work from the home departments of EECS and Statistics (EECS, STATS, and DATASCI subject

areas) are to be considered inside the major department.

For the purposes of calculating the major GPA, all course work from the home departments of EECS and Statistics (EECS, STATS, and DATASCI subject areas) are to be included in the major GPA.

Dual Majors with Computer Science

For a dual major with Computer Science, the student will need to take an additional 14 credits in pertinent technical subjects, with advisor approval in both Computer Science and Data Science, beyond satisfying the requirements for each of the majors.

Residency

A minimum of fifteen (15) credits for the major must be taken on the Ann Arbor campus.

Distribution Policy

No course used to fulfill a major requirement may be used toward the **LSA Distribution Requirement**. In addition, courses in the STATS, DATASCI and EECS subject areas may not be used toward the Distribution Requirement.

Honors

Any LSA Data Science student with a current grade point average of at least 3.4 may apply for admission to the LSA Data Science Honors major program. Such application is made through a Statistics Department undergraduate advisor. Students in the Honors program must complete the regular major program with an overall GPA of at least 3.5. In addition, LSA Data Science Honors majors must elect the Senior Honors Seminar (STATS 499) and complete a project or a thesis under the direction of a member of the Statistics Department or EECS faculty.

Digital Studies Minor

Digital Studies encompasses new and diverse practices and methodologies immediately relevant to contemporary concerns. The field includes scholars who create digital archives, analyze on-line materials, and / or disseminate text, image, and video using new platforms and computational tools. Other academics study the everyday practice of digital culture in specific cultural contexts. Rapid technological transformations are altering our expectations for engaged citizenship and civic practices as well as scholarly research and publishing.

The Digital Studies minor is aimed at students with academic interests in the role that digital media play in U.S. culture, history, and media, and provides students with the methods and tools for studying, analyzing, and writing about their everyday engagements with electronic forms of community and culture in the U.S. The courses offer both humanistic and social scientific approaches to the study of all things digital.

Students can use the Digital Studies minor to supplement and make more coherent their understanding of the knowledge formed in a traditional discipline. As digital media use becomes ubiquitous and an increasingly important driver of the U.S. economy, as well as a cultural force in its own right, students in History, Women's Studies, English, African-American and other Ethnic Studies, Political Science, Communication Studies, Sociology, and Screen Arts &

Cultures find themselves attracted to the topic as a way to engage with their main areas of study. For instance, students with interests in digital media, history, and culture who wish to focus on topics not consistently covered in a traditional humanities or social science discipline can enhance and deepen their work in another major by taking a systematic supplement of courses in Digital Studies. An appropriate student for the Digital Studies minor may be putting together an ensemble of courses focusing on, for example, digital economies and intellectual property debates; digital labor, race, gender and identity in online spaces; algorithmic cultures and computing history; digital games studies; online communities; shifting distribution channels.

Students wishing to pursue a minor in Digital Studies must develop a specific plan for its completion in consultation with one of the department's designated advisors.

Effective Winter 2018

Advising

Students wishing to pursue a minor in Digital Studies must develop a specific plan for its completion in consultation with one of the department's designated advisors.

Appointments with the respective advisor can be scheduled online at:
<https://lsa.umich.edu/digitalstudies/undergraduates/advising.html>

Prerequisites

None.

Requirements

Minimum Credits: 16

1. **Core Course:** AMCULT 202: Digital Culture, ENGLISH 280: Introduction to Digital Cultures, or SAC202: Introduction to Digital Media Studies (NOTE: Students can receive credit toward the minor *for only one of* AMCULT 202, ENGLISH 280, or SAC 202.)
2. **Electives:** Four additional courses, three of which must be at the 300-level or above:
 - AMCULT 301: Topics in American Culture, *section titled "Politics of Code"*
 - AMCULT 334 / FTVM 334 / COMM 334: Race, U.S. Culture, and Digital Games
 - AMCULT / DIGITAL 347: Politics of Code (*only if elected WN20 or later*)
 - AMCULT 358: Topics in Digital Studies
 - AMCULT / DIGITAL 360: Radical Digital Media (*only if elected WN20 or later*)
 - AMCULT 379: Privacy, Politics, Power
 - AMCULT / DIGITAL / SI 410: Ethics and Information Technology
 - AMCULT 498: Capstone Seminar in American Culture, *sections titled "Race on the Internet" or "Fakes, Phonies, and Copies"*
 - ANTHRCUL / HISTART 354: Art, Science, and Technology
 - ARTDES 200: Introductory Studios, *section titled "Programming for Poets"*
 - ARTDES 372: Video Games
 - ASIAN 282 / FTVM 282 / RCHUMS 283: Asia Goes Viral: Asian Pop Culture in the Age of Social Media
 - COMM 312: TV in a Digital Age
 - COMM 271: Communication Revolutions

- COMM 315: Critical Approaches to the Internet
- COMM 334 / AMCULT 334 / FTVM 334: Race, U.S. Culture, and Digital Games
- COMM 350: The Rise of Mass Culture
- COMM 362: Digital Media Foundations
- COMM 365: Visual Culture and Visual Literacy
- COMM 418: Designing Web Research
- COMM 423: Computer Mediated Communication
- COMM 424: Race, Gender and New Media
- COMM 425: Internet, Society and the Law
- COMM 461: Visuality and New Media
- DIGITAL / AMCULT / SI 410: Ethics and Information Technology
- EDUC 222: Video Games and Learning
- EDUC 333: Video Games and Learning
- ENGLISH 216: Narrating Disability Cultures
- ENGLISH 403: Topics in Language and Rhetorical Studies, *section titled "Digital Rhetorics"*
- ENGLISH 420: Technology and the Humanities
- FTVM 202: Intro to Digital Studies Media
- FTVM 282 / RCHUMS 283 / ASIAN 282: Asia Goes Viral: Asian Pop Culture in the Age of Social Media
- FTVM 334 / AMCULT 334 / COMM 334: Race, U.S. Culture, and Digital Games
- FTVM 354: New Media History
- FTVM 367: Digital Media and Identity
- FTVM 368: Topics in Digital Media Studies, section titled "Video Games as Culture / Form" and "Virtuality and Digital Identity"
- FTVM 376: New Media Theory
- HISTORY 379 / RCSSCI 379 / SI 379: History of Computers and the Internet
- PHIL 340: Minds and Machines
- RCHUMS 283 / FTVM 282 / ASIAN 282: Asia Goes Viral: Asian Pop Culture in the Age of Social Media
- RCSSCI 379 / HISTORY 379 / SI 379: History of Computers and the Internet
- SI 315: Interpersonal and Psychological Implications of Social Media
- SI 379 / RCSSCI 379 / HISTORY 379: History of Computers and the Internet
- SI / AMCULT / DIGITAL 410: Ethics and Information Technology
- SI 429: Online Communities: Analysis and Design of Online Interaction
- SOC 295: Topics in Sociology, *section titled "Soc Life in the Digital World"*
- WRITING 200: New Media Writing
- WRITING 201: New Media Writing Mini-Course

Other courses as approved by the department advisor.

Drama Major

The RC Drama program offers a unique course of study at U-M: the understanding of drama both as art form and literature. They learn to understand all the stages of the dramatic process - from the circumstances of a work's composition to the history of theater methods and presentation. Students attune their sense of theater aesthetic through practice and experimentation. They immerse themselves in the dramatic process as actors and directors as

well as learning about all the aspects of production: costuming, scenery, lighting and sound design.

The Drama major is operated in collaboration with the Department of Theatre and Drama. The major combines the strengths and faculty resources of the RC and Theatre and Drama.

- The RC brings strengths in a humanities approach to drama and the dramatic arts, most notably in its Text-to-Performance orientation that combines the literary, the historical, and the theatrical.
- Theatre and Drama contributes expertise in design, production, and practicum work, thereby exposing students to the best of both worlds.

Both programs offer students a variety of hands-on experiences and opportunities to study, explore, and perform.

Students have the opportunity to explore the fields of dramaturgy, directing, the teaching of dramatic literature, and practical theatre as it relates to theory; and to study dramatic texts and experience performance and production. It consists of 35 credits that move from introductory courses to those along two distinct upper-level tracks. The major culminates in a play production capstone seminar that brings all the elements of this major into focus.

The Program regards drama as an art form that is both literary and theatrical, drawing on these and many other arts for its expression but claiming methods and purposes which are finally its own. A proper appreciation of drama requires the recognition and study of several stages in the making of a play, primarily those of the playwright and his conditions of work, the text and form of the play, the performance of the play, and the audience and society from which the play arises and to whom it is addressed. This demands a practical as well as a theoretical encounter with all the components of the dramatic experience. Accordingly, the method of study employed by the Drama Program combines active experiment and dynamic presentation with critical analysis and appropriate conditions for interpreting, enjoying, and evaluating the living work of dramatic art.

Effective Fall 2015

Advising

1813 East Quadrangle
(734) 647-2745

www.lsa.umich.edu/rc

The Residential College (RC) is a four-year undergraduate liberal arts program with about 900 students and 60 faculty, situated within LSA. All RC advisors are RC faculty members and are available to meet with students to discuss RC and LSA requirements, possible majors, graduation requirements, etc. The RC Board on Academic Standing considers petitions submitted by RC students relating to requirements, deadlines, and academic circumstances. Appointments with academic advisors can be scheduled by calling the RC Academic Services Office at (734) 647-2745 or by stopping by the offices at 1813 East Quadrangle.

Prerequisites

None.

Requirements

Minimum Credits: 35

1. *Theater History sequence*: THREMUS 321 and 322
2. *Fundamentals of acting and script analysis*:
 - A. One of RCHUMS 281 or RCHUMS 282
 - B. One of THREMUS 101 or 110 or 102
3. *The Senior Capstone*. RCHUMS 481.
4. *Category Requirement*. Five courses, with at least two in each category, for a total of at least 18 credits
 - A. *Actor and Text*. Choose at least two from:
 - RCHUMS 383, 387, 389, 390, 483, 485
 - THREMUS 233, 323
 - AAS 342
 - ENGLISH 349
 - B. *Design and Production*. Choose at least two from:
 - RCHUMS 482
 - THREMUS 227, 240, 241, 250, 251
 - ENGLISH 227

Other Department Policies

RC Players. The RC Players is a student-run theater organization that provides students all over campus with the opportunity to showcase their talent in acting, directing, producing, and more. RC Players provide leadership opportunities and venues for creative and dramatic expression through its various student-written and published theatrical pieces in East Quad. Past productions have included Evenings of Scenes, premieres of original student-written works, student-senior theses that reflect and re-enact their undergraduate experiences, various experimental texts, and the modestly (in)famous Kamikaze Theater. We are open to all students across campus, but provide the unique advantage to become active and creative within the East Quad and RC community, even without any prior experience. www.umich.edu/~rcplayer/

Shakespeare in the Arb. A theater production of the LSA Residential College that moves through different areas of the Nichols Arboretum. The unique experience of Shakespeare in the Arb comes from the environmental staging of the plays. There is no fixed stage—instead, the audience follows the action through different locations in the Arboretum. The staging takes advantage of the vistas and valleys, the special arrangements of the natural settings. Performances held Thursday-Sunday evenings in June. This beloved annual tradition is eagerly anticipated by the community and commands sold-out performances. <http://www.lsa.umich.edu/rc/currentstudents/shakespeareinthearb>

German Theatre Program. U-M RC Deutsches Theater is part of the RC Intensive German Language Program. It has staged plays in German annually since 1985. The group travels to Munich or Berlin each year to see theater. <http://www-personal.umich.edu/~jshie/>

Distribution Policy

No course used to fulfill a major requirement may be used toward the LSA Distribution Requirement. In addition, courses in the THREMUS subject area may not be used toward the Distribution Requirement.

Drama: Text-to-Performance Minor

Students in this academic minor learn about the complete process from how a theater text evolves into a fleshed-out performance. The program teaches students a variety of different theatrical styles - both in textual expression and dramatic interpretation and exposes them to a breadth of original texts. Directorial methods, acting methods, scenery are all covered to help students create different and alternative connections between a piece's original message and the voice they would give it.

Effective Fall 2012

Exclusions:

Not open to students pursuing an academic minor or major in the Department of Theatre and Drama.

Advising

1813 East Quadrangle
(734) 647-2745
www.lsa.umich.edu/rc

The Residential College (RC) is a four-year undergraduate liberal arts program with about 900 students and 60 faculty, situated within LSA. All RC advisors are RC faculty members and are available to meet with students to discuss RC and LSA requirements, possible majors, graduation requirements, etc. The RC Board on Academic Standing considers petitions submitted by RC students relating to requirements, deadlines, and academic circumstances. Appointments with academic advisors can be scheduled by calling the RC Academic Services Office at (734) 647-2745 or by stopping by the offices at 1813 East Quadrangle.

Students wishing to pursue an academic minor must develop a specific plan for its completion in consultation with the program's designated advisor.

RC academic minors are open to all LSA students**Prerequisites**

None for the Academic Minor *per se*, although individual courses elected to meet the requirements of the Academic Minor may have course prerequisites.

Requirements**Minimum Credits: 15**

A minimum of 5 courses (at least 15-20 credits), to be elected from categories as stated:

1. **Core Courses** (both are required, and must be taken in sequence; ideally, the electives should be completed in the interval between taking RCHUMS 281 and 481):
 - A. RCHUMS 281: Introduction to Comedy and Tragedy
 - B. RCHUMS 481: Play Production Seminar.
2. **Electives.** Each student will select three electives in consultation with the T-t-P advisor. One course must be from Group A and two courses from Group B.

A. *Texts and Scenes*

- RCHUMS 380: Greek Theatre.
- RCHUMS 381: Shakespeare on the Stage.
- RCHUMS 382: Molière and His Theatre.
- RCHUMS 383: Ibsen and Strindberg.
- RCHUMS 385: The Theatre of Bertolt Brecht.
- RCHUMS 389: The Modern Theatre.
- RCHUMS 390: Special Period and Place Drama.

B. *The Varieties of Literature for the Theatre*

- RCHUMS 386 / MEMS 421: Medieval Drama.
- AAS 341 / THREMUS 222: Introduction to Black Theatre.
- AAS 342 / THREMUS 233: Acting and the Black Experience.
- ASIAN 310: The Theater of China and Japan.
- CLCIV 386: Greek Drama.
- ENGLISH 267: Introduction to Shakespeare.
- ENGLISH 349 / THREMUS 323: American Theatre and Drama.
- ENGLISH 367 / MEMS 367: Shakespeare's Principal Plays.
- ENGLISH 368 / MEMS 368: Shakespeare and his Contemporaries.
- ENGLISH 445: Shakespeare's Rivals.
- ENGLISH 446: World Drama: Congreve to Ibsen.
- ENGLISH 447: Modern Drama.
- ENGLISH 448: Contemporary Drama.
- GERMAN 320: German Expressionism in English Translation.
- GERMAN 360: Art and Politics in the Weimar Republic.
- GERMAN 381: Eighteenth to Nineteenth-century Drama.
- GERMAN 382: Nineteenth to Twentieth-century Drama.
- MEMS 367 / ENGLISH 367: Shakespeare's Principal Plays.
- MEMS 368 / ENGLISH 368: Shakespeare and his Contemporaries.
- MEMS 421 / RCHUMS 386: Medieval Drama.
- ITALIAN 471: Italian Theater.
- SPANISH 425: Latin-American Theater.
- SPANISH 460: The Spanish Comedia.
- SPANISH 468: Modern Spanish Theater.
- RUSSIAN 463: Chekhov.
- THREMUS 222 / AAS 341: Introduction to Black Theatre.
- THREMUS 233 / AAS 342: Acting and the Black Experience.
- THREMUS 323 / ENGLISH 349: American Theatre and Drama.
- THREMUS 324: Contemporary Black Theatre.
- THREMUS 332: Performing Gender: Drama from Oral Sources.
- THREMUS 402: Ideas of Theatre: Dramatic Theory and Criticism.

Earth and Environmental Sciences Major

The Earth and Environmental Sciences major trains students to receive a broad foundation in the natural sciences, to understand how the Earth system works, and to tackle grand challenges facing our planet and society such as climate, energy, mineral resources, natural hazards, water, pollution, and sustainability. From our field camp in Wyoming to research on campus and across the world, Michigan students have opportunities to explore the Earth and environmental sciences in engaging ways. The Department of Earth and Environmental Sciences offers:

- an Earth and Environmental Sciences Major
- optional sub-plans within the major: (1) Earth Sciences, (2) Environmental Sciences
- an Honors Plan
- a Teacher's Certificate Program, for prospective science teachers who are candidates for a secondary teaching certificate in earth science and general science; and,
- Academic minors in Earth Sciences, Environmental Geology, Geology, Oceanography, and Paleontology

Students are required to learn material from several core areas representing physical, chemical, and biological aspects of the geosciences. The program also includes a field requirement that takes students off campus to study and apply their knowledge. Within the Earth and Environmental Sciences major students may elect a sub-plan in (1) Earth Sciences or (2) Environmental Sciences. These sub-plans are optional and are designed for students who intend to pursue graduate studies and/or a career in the Earth and environmental sciences. Finally, students are encouraged, but not required, to complete a specialization in a subject area of their choosing. Students in this program of study can earn either a Bachelor of Arts or Bachelor of Science degree. A Bachelor of Science degree requires students complete at least 60 credits in science and math courses.

Effective Winter 2023

Advising

A plan for the major in the Department of Earth and Environmental Sciences is developed in consultation with a department advisor. A proposed plan *must be approved* in its entirety by the appropriate advisor prior to registration for the first term of major. Thereafter, progress through the plan and future elections *must be reviewed, and approved in advance*, whenever a change is proposed and in any case no less frequently than at the beginning of each new academic year of residence. Certification must also be obtained from an advisor, on an official *LSA Major Release Form*, immediately prior to submission of the application for the degree.

Information about appointments with department advisors is available on the web at: lsa.umich.edu/earth/undergraduate-students.html

Students wishing to pursue a minor in the department must develop a specific plan for its completion in consultation with the department's designated advisor. Appointments are scheduled online lsa.umich.edu/earth/undergraduate-students.html

Prerequisites

Prerequisites to the major provide students with background knowledge in topics related to Earth and environmental science and in core natural science areas. These should be completed as soon as possible.

1. **Earth and Environmental Science Requirements.**

Choose one from each of the following two categories:

- Category I: An introductory geoscience course with a laboratory (EARTH 116, 119&118, or 120).
- Category II: An introductory environmental science or oceanography course with a laboratory (EARTH 202, 219&218, or 222&223).

2. EARTH 132, or MATH 115 (Calculus I), or an equivalent introductory course in calculus; AP credit may be used to fulfill this requirement.

3. EARTH 295 Welcome to EARTH: Navigating an Earth and Environmental Sciences Undergraduate Career

4. Choose at least 2 out of the following 4 options for chemistry, physics, math, biology, or programming courses

- Option I Chemistry (choose one): EARTH 131; CHEM 130 with CHEM 125 + 126 (Lab) + discussion highly recommended
- Option II Physics (choose one): PHYSICS 135 and 136; PHYSICS 140 and 141; BIOPHYS/PHYSICS 150 and 151; PHYSICS 160 and 161
- Option III Biology (choose one): BIOLOGY 171, 172, 174, or 195
- Option IV Math, Chemistry, Physics, or Programming (choose one): EARTH 133; MATH 116; MATH 214 or 216; CHEM 230 or 210/211; PHYSICS 240/241 or BIOPHYS/PHYSICS 250/251

Recommended Prerequisites

Recommended introductory field experience. Students are encouraged in their first year of declaring the major to participate in a departmental international or domestic field trip over spring break or summer.

Students interested in continuing on to graduate school or professional work in the geosciences are encouraged to choose their prerequisites in consultation with a department advisor. See also the other recommendations listed below.

Requirements

Minimum Credits: 30

The major requires a minimum of 30 credits of coursework not including prerequisites. Students who choose a sub-plan will complete a minimum of 38 credits.

Students may pursue one of three options within the major:

- (1) an Earth and Environmental Sciences major;
- (2) an Earth and Environmental Sciences major with a sub-plan in Earth Sciences
- (3) an Earth and Environmental Sciences major with a sub-plan in Environmental Sciences

The requirements for each option are described below:

Earth and Environmental Sciences major: this flexible major is suitable for students who want to customize their coursework in Earth and Environmental Sciences, or for students who are interested in careers in environmental law, policy, economics, business, sustainability, and related fields.

1. Core Courses

Core courses in the Earth and Environmental Sciences Major are designed to provide students with training in the physical, chemical, and biologic processes relevant to the present form, and evolution of the Earth.

Students should choose four courses from the following **Core Course Options:**

- EARTH 305: Earth's Surface and Sediments
- EARTH 313: Geobiology
- EARTH 314: Geophysics
- EARTH 315: Earth Materials
- EARTH 325: Environmental Geochemistry
- EARTH 331: Climate and Climate Change
- EARTH 351: Earth Structure
- EARTH 352: Magmatism, Metamorphism, and Plate Tectonics
- EARTH 442 Earth Surface Processes and Soils

2. Field Experience Requirement

A fundamental aspect of studying the Earth and environmental sciences is exposure to hands-on approaches for data collection and problem-solving. For this reason, the Earth and Environmental Sciences major requires students to complete a field-based course at Camp Davis, Wyoming, where students learn how to collect and interpret Earth and Environmental science data.

Students must choose one of the following courses: EARTH 440 or EARTH 450. Students who take EARTH 440 must have completed EARTH 305 and 351 prior to taking EARTH 440. Students who take EARTH 450 must have completed EARTH 313 and 325 prior to taking Earth 450. Students who take EARTH 450 are also strongly encouraged to take EARTH 442 prior to taking EARTH 450. Students interested in a career in Oceanography may elect to take, with approval from a department advisor, a marine based field course.

3. General Electives

Nine EARTH credits at the 300 or higher level. Earth and Environmental Sciences majors are required to take these additional EARTH credits at the 300 or higher level to develop additional expertise in a specialization or area of their choosing. Students may wish to consider a specialization in an area listed in the core courses, or create their own specialization in consultation with a department advisor.

Remaining core courses listed above may be elected as well as other department course offerings. Students interested in graduate school and/or professional employment in the geosciences are encouraged to take as many 400-level courses as possible.

A maximum of one credit of research or independent study (EARTH 299, 489, 490, 494, 498, 499) can be used for these electives.

4. Upper Level Writing Requirement

The College requires that every student satisfy an upper-level writing requirement before graduation. Students in major programs in the department must satisfy this requirement by completion of EARTH 333 or 380 with a C- minimum or by a program of writing that is explained in detail on the departmental web page: www.lsa.umich.edu/earth/undergraduate.

Earth and Environmental Sciences major with an Earth Sciences sub-plan: This option is intended to provide a strong foundation in core areas of the Earth sciences and skills and experience in the collection and interpretation of data, and is suitable for students who are interested in pursuing a career and/or graduate studies in geology, geophysics, and geochemistry and related fields.

1. Core Courses

Core courses in the Earth Sciences sub-plan are designed to provide students with training in the physical, chemical, and geological processes relevant to the present form and evolution of the Earth. Recognizing that core areas of the environmental sciences are also central to sub-disciplines in the Earth sciences, the Earth Sciences sub-plan also requires at least one core course from the Environmental Sciences sub-plan. Finally, an upper-level core course builds on knowledge and concepts from the core

Students take all five of the following **Earth Sciences Core Courses**:

- EARTH 305 Earth's Surface and Sediments
- EARTH 314 Geophysics
- EARTH 315 Earth Materials
- EARTH 351 Earth Structure
- EARTH 352 Magmatism, Metamorphism, and Plate Tectonics

Students choose one of the following **Environmental Sciences Core Courses**:

- EARTH 313 Geobiology
- EARTH 325 Environmental Geochemistry
- EARTH 331 Climate and Climate Change
- EARTH 442 Earth Surface Processes and Soils

2. Upper-Level Analytical Methods

Skills in the collection, analysis, and interpretation of data are critical to the Earth Sciences. For this reason, the Earth Sciences sub-plan requires students to complete one of the following **Upper-Level Analytical Methods Courses**:

- EARTH 408 Introduction to GIS
- EARTH 444 Analytical Paleobiology
- EARTH 455 Determinative Methods
- EARTH 468 Data and Models
- EARTH 484 Environmental Geophysics

3. Field Experience Requirement

- EARTH 440 Geology Field Methods (Students who take EARTH 440 must have completed EARTH 305 and 351 prior to taking EARTH 440.)

4. Earth Sciences Electives

At least one of the following:

- EARTH 344 Sustainable and Fossil Energy
- EARTH 415 Economic Geology
- EARTH 418&419 Paleontology
- EARTH 420 Earth Physics
- EARTH 422 Principles of Geochemistry
- EARTH 428 Mineral Surfaces
- EARTH 429 Computational Mineralogy
- EARTH 432 Plant Paleobiology
- EARTH 437 Evolution of Vertebrates
- EARTH 442 Earth Surface Processes and Soils
- EARTH 444 Analytical Paleobiology
- EARTH 449 Marine Geology
- EARTH 467 Stratigraphy and Basin Analysis
- EARTH 477 Hydrogeology
- EARTH 483 Seismology
- EARTH 485 Geochronology

5. Upper Level Writing Requirement

The College requires that every student satisfy an upper-level writing requirement before graduation. Students in concentration programs in the department must satisfy this requirement by completion of EARTH 333 or 380 or by a program of writing that is explained in detail on the departmental web page: www.lsa.umich.edu/earth/undergraduate.

Earth and Environmental Sciences major with an Environmental Sciences sub-plan: This option is intended to provide a strong foundation in core areas of the environmental sciences and skills and experience in the collection and interpretation of data, and is suitable for students who are interested in pursuing a career and/or graduate studies in climatology, hydrology, oceanography, environmental chemistry, and related fields.

1. Core Courses

Core courses in the Environmental Sciences sub-plan are designed to provide students with a foundation in the physical, chemical, biological, and geological processes relevant to environmental processes. Recognizing that core areas of the Earth sciences are also central to sub-disciplines in the environmental sciences, the Environmental Sciences sub-plan also requires at least one core course from the Earth Sciences sub-plan.

Students take all four of the following **Environmental Sciences Core Courses**:

- EARTH 313 Geobiology
- EARTH 325 Environmental Geochemistry
- EARTH 331 Climate and Climate Change
- EARTH 442 Earth Surface Processes and Soils

Students choose one of the following **Earth Sciences Core Courses**:

- EARTH 305 Earth's Surface and Sediments
- EARTH 314 Geophysics
- EARTH 315 Earth Materials
- EARTH 351 Earth Structure

- EARTH 352 Magmatism, Metamorphism, and Plate Tectonics

2. Sustainability Course

Human activity exerts strong influence on the environment and is now an integral part of the Earth system. Hence, a course that focuses on human issues surrounding resources, economics, sustainability, and environment is required for the Environmental Sciences sub-plan. Students choose one of the following:

- EARTH 333 Inexhaustible Seas? Marine Resources and Environmental Issues
- EARTH 380 Mineral Resources, Economics, and the Environment

3. Upper-Level Analytical Methods

Skills in the collection, analysis, and interpretation of data are critical to the environmental sciences. For this reason, the Environmental Sciences sub-plan requires students to complete one of the following

- EARTH 408 Introduction to GIS
- EARTH 455 Determinative Methods
- EARTH 468 Data and Models
- EARTH 484 Environmental Geophysics

4. Field Experience Requirement

- EARTH 450 Ecosystem Science (Students who take EARTH 450 must have completed EARTH 313 and 325 prior to taking Earth 450. Students who take EARTH 450 are also strongly encouraged to take EARTH 442 prior to taking EARTH 450.)

5. Environmental Sciences Electives

At least two of the following:

- EARTH 344 Sustainable and Fossil Energy
- EARTH 413 Geomicrobiology
- EARTH 421 Introduction to Physical Oceanography
- EARTH 427 Environmental and Technological Applications of Mineralogy
- EARTH 428 Mineral Surfaces
- EARTH 429 Computational Mineralogy
- EARTH 431 Terrestrial Biomes
- EARTH 446 Paleoclimate
- EARTH 452 Paleooceanography
- EARTH 465 Biogeochemistry
- EARTH 477 Hydrogeology
- EARTH 478 Geochemistry of Natural Waters

6. Upper Level Writing Requirement

The College requires that every student satisfy an upper-level writing requirement before graduation. Students in concentration programs in the department must satisfy this requirement by completion of EARTH 333 or 380 or by a program of writing that is explained in detail on the departmental web page: www.lsa.umich.edu/earth/undergraduate.

Sample specializations

Students who choose the Earth and Environmental Sciences major are encouraged to build a specialization that suits their own interests by taking additional upper-level courses in the

department. They may elect to use additional relevant courses from other departments as well. Students should build their specialization in close consultation with their department advisor.

The following includes titles of a few example specializations that students may consider pursuing. Recommended courses associated with each of these specializations are available on the department website. These are only examples, and other specializations may be considered in consultation with a department advisor.

- Geology
- Environmental Geoscience
- Energy and Mineral Resources
- Geochemistry
- Geophysics
- Oceanography
- Paleontology and Geobiology

Other recommendations

Students interested in graduate school or a career in geological and environmental sciences, or oceanography, are strongly encouraged to plan their curriculum in close consultation with an Earth and Environmental Sciences department advisor as soon as possible. Example curricula are given below.

Recommended courses for students interested in graduate study or professional employment in **Geological Sciences** include:

- MATH 116: Calculus II, MATH 214 or 216: Differential equations.
- CHEM 230: Physical Chemistry or CHEM 210 and 211: Organic Chemistry
- PHYSICS 240 and 241: Physics II and Lab
- EARTH 305, 310, 313, 315, 351, 418, 420, 422, 440
- Completion of a senior or Honors thesis after at least two semesters of research with faculty in the department.

Recommended courses for students interested in graduate study or professional employment in **Environmental Geology** include:

- MATH 116: Calculus II, MATH 214 or 216: Differential equations.
- CHEM 230: Physical Chemistry or CHEM 210 and 211: Organic Chemistry
- PHYSICS 240 and 241: Physics II and Lab, or BIOLOGY 162, 171, or 172.
- EARTH 305, 315, 325, 380, 420, 442, 450 (or prior to Spring 2014, EARTH 341), 465, 477.
- Completion of a senior or Honors thesis after at least two semesters of research with faculty in the department.

Recommended courses for students interested in graduate study or professional employment in **Oceanography** include:

- MATH 116: Calculus II, and one of MATH 214, 215, or 216: Differential equations
- STATS 250
- CHEM 230: Physical Chemistry or CHEM 210 and 211: Organic Chemistry
- PHYSICS 240 and 241: Physics II and Lab
- EARTH 222 and 223, 305, 310, 320, 321, 325 or 422, 409, 420, 449, 452
- Completion of a senior or Honors thesis after at least two semesters of research with

faculty in the department.

Distribution Policy

No course used to fulfill a major requirement may be used toward the **LSA Distribution Requirement**. In addition, courses in the EARTH subject area may not be used toward the Distribution Requirement.

Honors

Effective: Winter 2012

The Honors plan consists of a series of special academic opportunities supplementary to any of the regular majors. The Honors plan is tailored to fit the needs and interests of individual students. Honors students in the Department of Earth and Environmental Sciences should complete EARTH 490 for one credit during two of the four terms of the junior and senior years for:

1. reading and discussion of the professional literature;
2. library research and reporting on a special research problem;
3. research as an assistant to a faculty member or as part of a graduate seminar; or
4. individual research and reporting on a problem or graduate seminar.

A thesis is required to complete the program. The Honors plan offers well-qualified students an opportunity to increase the breadth and depth of their undergraduate experience. To be eligible for the Honors plan, students must have at least: (1) a 3.4 grade point average in EARTH courses elected in the department; and (2) a cumulative grade point average of at least 3.4 at the time of acceptance. Students admitted to the Honors plan must complete the requirements for their principal major program.

Ideally, the selection of candidates for Honors plan is made at the beginning of the junior year, but qualified students may be admitted to the plan as late as the end of the junior year. *Interested students should contact the departmental office for referral to the Honors advisor, 2534 North University Building, (734) 764-1435.*

Teaching Certificate

The Department of Earth and Environmental Sciences offers prospective secondary school science teachers an opportunity to earn a bachelor's degree from the College with a major in the department while satisfying the requirements for a provisional secondary school teaching certificate with a teaching major in earth science or general science. An outline with specific information about the teaching major and minor in earth science, general science, and the other teaching certificate requirements should be obtained from the School of Education Office of Academic Services. Interested students should consult the teaching certificate advisor as early as possible.

Earth and Environmental Sciences (Major) (Winter 2022 - Fall 2022)

Effective Winter 2022

Advising

A plan for the major in the Department of Earth and Environmental Sciences is developed in consultation with a department advisor. A proposed plan *must be approved* in its entirety by the

appropriate advisor prior to registration for the first term of major. Thereafter, progress through the plan and future elections *must be reviewed, and approved in advance*, whenever a change is proposed and in any case no less frequently than at the beginning of each new academic year of residence. Certification must also be obtained from an advisor, on an official *LSA Major Release Form*, immediately prior to submission of the application for the degree.

Information about appointments with department advisors is available on the web at: lsa.umich.edu/earth/undergraduate-students.html

Students wishing to pursue a minor in the department must develop a specific plan for its completion in consultation with the department's designated advisor. Appointments are scheduled online lsa.umich.edu/earth/undergraduate-students.html

Prerequisites

Prerequisites to the major provide students with background knowledge in topics related to Earth and environmental science and in core natural science areas. These should be completed as soon as possible.

1. Earth and Environmental Science Requirements.

Choose one from each of the following two categories:

- Category I: An introductory geoscience course with a laboratory (EARTH 116, 119&118, or 120).
- Category II: An introductory environmental science or oceanography course with a laboratory (EARTH 202, 219&218, or 222&223).

2. MATH 115 (Calculus I) or equivalent

3. EARTH 295 Welcome to EARTH: Navigating an Earth and Environmental Sciences Undergraduate Career

4. Choose at least 2 out of the following 4 options for chemistry, physics, and biology courses:

- Option I: [EARTH 131: Earth and Environmental Chemistry **-or-** CHEM 130: General Chemistry] with CHEM 125+126 (lab + discussion) highly recommended
- Option II: PHYSICS 135 and 136 **-or-** PHYSICS 140 and 141: Physics I and lab **-or-** BIOPHYS/PHYSICS 150 and 151: Physics for the Life Sciences I **-or-** PHYSICS 160 and 161: Honors Physics I and lab
- Option III: BIOLOGY 171: Introductory Biology Ecology and Evolution, BIOLOGY 172: Introductory Biology Molecular, Cellular, and Developmental, BIOLOGY 174: Introduction to Cell and Molecular Biology, **or** BIOLOGY 195: Introductory Biology AP.
- Option IV: Choose one from:
 - MATH 116: Calculus II,
 - MATH 214 or 216: Differential Equations,
 - CHEM 230: Physical Chemistry or 210/211: Organic Chemistry and Lab, or
 - PHYSICS 240/241 or 250/251: Physics II and Lab.

Recommended Prerequisites

Recommended introductory field experience. Students are encouraged in their first year of

declaring the major to participate in a departmental international or domestic field trip over spring break or summer.

Students interested in continuing on to graduate school or professional work in the geosciences are encouraged to choose their prerequisites in consultation with a department advisor. See also the other recommendations listed below.

Requirements

Minimum Credits: 30

The major requires a minimum of 30 credits of coursework not including prerequisites. Students who choose a sub-plan will complete a minimum of 38 credits.

Students may pursue one of three options within the major:

- (1) an Earth and Environmental Sciences major;
- (2) an Earth and Environmental Sciences major with a sub-plan in Earth Sciences
- (3) an Earth and Environmental Sciences major with a sub-plan in Environmental Sciences

The requirements for each option are described below:

Earth and Environmental Sciences major: this flexible major is suitable for students who want to customize their coursework in Earth and Environmental Sciences, or for students who are interested in careers in environmental law, policy, economics, business, sustainability, and related fields.

1. Core Courses

Core courses in the Earth and Environmental Sciences Major are designed to provide students with training in the physical, chemical, and biologic processes relevant to the present form, and evolution of the Earth.

Students should choose four courses from the following **Core Course Options:**

- EARTH 305: Earth's Surface and Sediments
- EARTH 313: Geobiology
- EARTH 314: Geophysics
- EARTH 315: Earth Materials
- EARTH 325: Environmental Geochemistry
- EARTH 331: Climate and Climate Change
- EARTH 351: Earth Structure
- EARTH 352: Magmatism, Metamorphism, and Plate Tectonics
- EARTH 442 Earth Surface Processes and Soils

2. Field Experience Requirement

A fundamental aspect of studying the Earth and environmental sciences is exposure to hands-on approaches for data collection and problem-solving. For this reason, the Earth and Environmental Sciences major requires students to complete a field-based course at Camp Davis, Wyoming, where students learn how to collect and interpret Earth and Environmental science data.

Students must choose one of the following courses: EARTH 440 or EARTH 450. Students who

take EARTH 440 must have completed EARTH 305 and 351 prior to taking EARTH 440. Students who take EARTH 450 must have completed EARTH 313 and 325 prior to taking Earth 450. Students who take EARTH 450 are also strongly encouraged to take EARTH 442 prior to taking EARTH 450. Students interested in a career in Oceanography may elect to take, with approval from a department advisor, a marine based field course.

3. General Electives

Nine EARTH credits at the 300 or higher level. Earth and Environmental Sciences majors are required to take these additional EARTH credits at the 300 or higher level to develop additional expertise in a specialization or area of their choosing. Students may wish to consider a specialization in an area listed in the core courses, or create their own specialization in consultation with a department advisor.

Remaining core courses listed above may be elected as well as other department course offerings. Students interested in graduate school and/or professional employment in the geosciences are encouraged to take as many 400-level courses as possible.

A maximum of one credit of research or independent study (EARTH 299, 489, 490, 494, 498, 499) can be used for these electives.

4. Upper Level Writing Requirement

The College requires that every student satisfy an upper-level writing requirement before graduation. Students in major programs in the department must satisfy this requirement by completion of EARTH 333 or 380 with a C- minimum or by a program of writing that is explained in detail on the departmental web page: www.lsa.umich.edu/earth/undergraduate.

Earth and Environmental Sciences major with an Earth Sciences sub-plan: This option is intended to provide a strong foundation in core areas of the Earth sciences and skills and experience in the collection and interpretation of data, and is suitable for students who are interested in pursuing a career and/or graduate studies in geology, geophysics, and geochemistry and related fields.

1. Core Courses

Core courses in the Earth Sciences sub-plan are designed to provide students with training in the physical, chemical, and geological processes relevant to the present form and evolution of the Earth. Recognizing that core areas of the environmental sciences are also central to sub-disciplines in the Earth sciences, the Earth Sciences sub-plan also requires at least one core course from the Environmental Sciences sub-plan. Finally, an upper-level core course builds on knowledge and concepts from the core

Students take all five of the following **Earth Sciences Core Courses**:

- EARTH 305 Earth's Surface and Sediments
- EARTH 314 Geophysics
- EARTH 315 Earth Materials
- EARTH 351 Earth Structure
- EARTH 352 Magmatism, Metamorphism, and Plate Tectonics

Students choose one of the following **Environmental Sciences Core Courses**:

- EARTH 313 Geobiology
- EARTH 325 Environmental Geochemistry
- EARTH 331 Climate and Climate Change
- EARTH 442 Earth Surface Processes and Soils

2. Upper-Level Analytical Methods

Skills in the collection, analysis, and interpretation of data are critical to the Earth Sciences. For this reason, the Earth Sciences sub-plan requires students to complete one of the following **Upper-Level Analytical Methods Courses**:

- EARTH 408 Introduction to GIS
- EARTH 444 Analytical Paleobiology
- EARTH 455 Determinative Methods
- EARTH 468 Data and Models

3. Field Experience Requirement

- EARTH 440 Geology Field Methods (Students who take EARTH 440 must have completed EARTH 305 and 351 prior to taking EARTH 440.)

4. Earth Sciences Electives

At least one of the following:

- EARTH 344 Sustainable and Fossil Energy
- EARTH 415 Economic Geology
- EARTH 418&419 Paleontology
- EARTH 420 Earth Physics
- EARTH 422 Principles of Geochemistry
- EARTH 428 Mineral Surfaces
- EARTH 429 Computational Mineralogy
- EARTH 432 Plant Paleobiology
- EARTH 437 Evolution of Vertebrates
- EARTH 442 Earth Surface Processes and Soils
- EARTH 444 Analytical Paleobiology
- EARTH 449 Marine Geology
- EARTH 467 Stratigraphy and Basin Analysis
- EARTH 477 Hydrogeology
- EARTH 483 Seismology
- EARTH 485 Geochronology

5. Upper Level Writing Requirement

The College requires that every student satisfy an upper-level writing requirement before graduation. Students in concentration programs in the department must satisfy this requirement by completion of EARTH 333 or 380 or by a program of writing that is explained in detail on the departmental web page: www.lsa.umich.edu/earth/undergraduate.

Earth and Environmental Sciences major with an Environmental Sciences sub-plan: This option is intended to provide a strong foundation in core areas of the environmental sciences and skills and experience in the collection and interpretation of data, and is suitable for students who are interested in pursuing a career and/or graduate studies in climatology, hydrology,

oceanography, environmental chemistry, and related fields.

1. Core Courses

Core courses in the Environmental Sciences sub-plan are designed to provide students with a foundation in the physical, chemical, biological, and geological processes relevant to environmental processes. Recognizing that core areas of the Earth sciences are also central to sub-disciplines in the environmental sciences, the Environmental Sciences sub-plan also requires at least one core course from the Earth Sciences sub-plan.

Students take all four of the following **Environmental Sciences Core Courses**:

- EARTH 313 Geobiology
- EARTH 325 Environmental Geochemistry
- EARTH 331 Climate and Climate Change
- EARTH 442 Earth Surface Processes and Soils

Students choose one of the following **Earth Sciences Core Courses**:

- EARTH 305 Earth's Surface and Sediments
- EARTH 314 Geophysics
- EARTH 315 Earth Materials
- EARTH 351 Earth Structure
- EARTH 352 Magmatism, Metamorphism, and Plate Tectonics

2. Sustainability Course

Human activity exerts strong influence on the environment and is now an integral part of the Earth system. Hence, a course that focuses on human issues surrounding resources, economics, sustainability, and environment is required for the Environmental Sciences sub-plan. Students choose one of the following:

- EARTH 333 Inexhaustible Seas? Marine Resources and Environmental Issues
- EARTH 380 Mineral Resources, Economics, and the Environment

3. Upper-Level Analytical Methods

Skills in the collection, analysis, and interpretation of data are critical to the environmental sciences. For this reason, the Environmental Sciences sub-plan requires students to complete one of the following **Upper-Level Analytical Methods Courses**:

- EARTH 408 Introduction to GIS
- EARTH 455 Determinative Methods
- EARTH 468 Data and Models

4. Field Experience Requirement

- EARTH 450 Ecosystem Science (Students who take EARTH 450 must have completed EARTH 313 and 325 prior to taking Earth 450. Students who take EARTH 450 are also strongly encouraged to take EARTH 442 prior to taking EARTH 450.)

5. Environmental Sciences Electives

At least two of the following:

- EARTH 344 Sustainable and Fossil Energy
- EARTH 413 Geomicrobiology
- EARTH 421 Introduction to Physical Oceanography

- EARTH 427 Environmental and Technological Applications of Mineralogy
- EARTH 428 Mineral Surfaces
- EARTH 429 Computational Mineralogy
- EARTH 431 Terrestrial Biomes
- EARTH 446 Paleoclimate
- EARTH 452 Paleoceanography
- EARTH 465 Biogeochemistry
- EARTH 477 Hydrogeology
- EARTH 478 Geochemistry of Natural Waters

6. Upper Level Writing Requirement

The College requires that every student satisfy an upper-level writing requirement before graduation. Students in concentration programs in the department must satisfy this requirement by completion of EARTH 333 or 380 or by a program of writing that is explained in detail on the departmental web page: www.lsa.umich.edu/earth/undergraduate.

Sample specializations

Students who choose the Earth and Environmental Sciences major are encouraged to build a specialization that suits their own interests by taking additional upper-level courses in the department. They may elect to use additional relevant courses from other departments as well. Students should build their specialization in close consultation with their department advisor.

The following includes titles of a few example specializations that students may consider pursuing. Recommended courses associated with each of these specializations are available on the department website. These are only examples, and other specializations may be considered in consultation with a department advisor.

- Geology
- Environmental Geoscience
- Energy and Mineral Resources
- Geochemistry
- Geophysics
- Oceanography
- Paleontology and Geobiology

Other recommendations

Students interested in graduate school or a career in geological and environmental sciences, or oceanography, are strongly encouraged to plan their curriculum in close consultation with an Earth and Environmental Sciences department advisor as soon as possible. Example curricula are given below.

Recommended courses for students interested in graduate study or professional employment in **Geological Sciences** include:

- MATH 116: Calculus II, MATH 214 or 216: Differential equations.
- CHEM 230: Physical Chemistry or CHEM 210 and 211: Organic Chemistry
- PHYSICS 240 and 241: Physics II and Lab
- EARTH 305, 310, 313, 315, 351, 418, 420, 422, 440
- Completion of a senior or Honors thesis after at least two semesters of research with faculty in the department.

Recommended courses for students interested in graduate study or professional employment in **Environmental Geology** include:

- MATH 116: Calculus II, MATH 214 or 216: Differential equations.
- CHEM 230: Physical Chemistry or CHEM 210 and 211: Organic Chemistry
- PHYSICS 240 and 241: Physics II and Lab, or BIOLOGY 162, 171, or 172.
- EARTH 305, 315, 325, 380, 420, 442, 450 (or prior to Spring 2014, EARTH 341), 465, 477.
- Completion of a senior or Honors thesis after at least two semesters of research with faculty in the department.

Recommended courses for students interested in graduate study or professional employment in **Oceanography** include:

- MATH 116: Calculus II, and one of MATH 214, 215, or 216: Differential equations
- STATS 250
- CHEM 230: Physical Chemistry or CHEM 210 and 211: Organic Chemistry
- PHYSICS 240 and 241: Physics II and Lab
- EARTH 222 and 223, 305, 310, 320, 321, 325 or 422, 409, 420, 449, 452
- Completion of a senior or Honors thesis after at least two semesters of research with faculty in the department.

Distribution Policy

No course used to fulfill a major requirement may be used toward the **LSA Distribution Requirement**. In addition, courses in the EARTH subject area may not be used toward the Distribution Requirement.

Honors

Effective: Winter 2012

The Honors plan consists of a series of special academic opportunities supplementary to any of the regular majors. The Honors plan is tailored to fit the needs and interests of individual students. Honors students in the Department of Earth and Environmental Sciences should complete EARTH 490 for one credit during two of the four terms of the junior and senior years for:

1. reading and discussion of the professional literature;
2. library research and reporting on a special research problem;
3. research as an assistant to a faculty member or as part of a graduate seminar; or
4. individual research and reporting on a problem or graduate seminar.

A thesis is required to complete the program. The Honors plan offers well-qualified students an opportunity to increase the breadth and depth of their undergraduate experience. To be eligible for the Honors plan, students must have at least: (1) a 3.4 grade point average in EARTH courses elected in the department; and (2) a cumulative grade point average of at least 3.4 at the time of acceptance. Students admitted to the Honors plan must complete the requirements for their principal major program.

Ideally, the selection of candidates for Honors plan is made at the beginning of the junior year, but qualified students may be admitted to the plan as late as the end of the junior year. *Interested students should contact the departmental office for referral to the Honors*

advisor, 2534 C.C. Little Building, (734) 764-1435.

Teaching Certificate

The Department of Earth and Environmental Sciences offers prospective secondary school science teachers an opportunity to earn a bachelor's degree from the College with a major in the department while satisfying the requirements for a provisional secondary school teaching certificate with a teaching major in earth science or general science. An outline with specific information about the teaching major and minor in earth science, general science, and the other teaching certificate requirements should be obtained from the School of Education Office of Academic Services. Interested students should consult the teaching certificate advisor as early as possible.

Earth Sciences Minor

The Earth Sciences minor is designed to give students a broad introduction to geology, oceanography and related sciences. It allows a wide selection of courses to suit both general and specific interests. The Earth Sciences minor would be particularly suitable for non-science majors, such as pre-law, business, economics, history, and English.

Our innovative and flexible majors provide an interesting path for students to follow on their way to an LSA degree. From our field camp at Camp Davis in Wyoming, to lab work on campus, Michigan students have an opportunity to explore the geological sciences in exciting ways.

The Department of Earth and Environmental Sciences offers:

- an ***Earth and Environmental Sciences Major*** and an ***Honors Plan***
- a ***Teacher's Certificate Program***, for prospective science teachers who are candidates for a secondary teaching certificate in earth science and general science; and,
- Academic minors in ***Earth Sciences***, ***Environmental Geology***, ***Geology***, ***Oceanography***, and ***Paleontology***.

Our innovative and flexible majors provide an interesting path for students to follow on their way to an LSA degree. From our field camp at Camp Davis in Wyoming, to lab work on campus, Michigan students have an opportunity to explore the geological sciences in exciting ways.

Effective Winter 2021

Exclusions:

A minor in Earth Sciences is not open to students with any major or any other minor in the Department of Earth and Environmental Sciences.

Advising

Students wishing to pursue a minor in the Department of Earth and Environmental Sciences must develop a specific plan for its completion in consultation with the department's designated advisor. Appointments are scheduled online www.lsa.umich.edu/earth/undergraduate

Prerequisites

None.

Requirements

Minimum Credits: 15

1. **One introductory Geology course** must be taken from one of the following two groups:
 - o Group 1. Courses with laboratory: EARTH 116, 118&119, 120, 201, 218&219, 222&223.
 - o Group 2. Courses without laboratory (EARTH 119, 125, 135, 175, 205+206, 219)
2. **One General Interest course.** Up to four additional credits may be elected from 200-level and up courses in Earth and Environmental Sciences, including 200-level courses listed in Category 1 (above).
3. **Upper-level Electives:** The remainder of the credits for the minor must be elected from 300- and 400-level courses in Earth and Environmental Sciences.

East European Studies Minor

The minor in East European and Eurasian Studies is designed for students who have interests in the cultures and societies of this part of the world, both past and present. These interests might be, for example, in literature, cinema, the visual arts, music, popular culture, political and economic history, or present-day politics of the region. For such students, the minor would be a beneficial complement to majors in history, political science, economics, anthropology, sociology, or any of the fields in the humanities.

The minor provides general knowledge about these parts of the world, while at the same time allowing students to concentrate their studies on a particular region (East European, Eurasia) and/or on a particular disciplinary approach in culture and society.

Effective Fall 2020

Advising

Students wishing to pursue an academic minor in the Department of Slavic Languages and Literatures must develop a specific plan for its completion in consultation with Professor Michael Makin, the department's designated advisor.

Appointments are scheduled online at www.lsa.umich.edu/slavic/undergraduate/advising

Prerequisites

To complete one of four available classes: Slavic 225, Russian 231, REEES 395 or REEES 397. No knowledge of the languages of Eastern Europe or Eurasia is required.

Requirements

Minimum Credits: 15

At least fifteen credits elected in the following courses on East European and Eurasian topics, of

which only one course may be below the 300-level. Students must take at least two courses focused on the humanities in the below mentioned list of courses.

Courses focused on East European and Eurasian humanities topics

- SLAVIC 225, 240, 245, 261, 270, 281, 312, 313, 315, 316, 470, 471, 481, 488, 490;
- RUSSIAN 231, 322, 333, 346, 347, 348, 356, 358, 361, 444, 450, 453, 454, 460, 462, 463, 464, 466, 467, 468, 469, 473, 474, 475;
- RUSSIAN 375/575/HISTORY 333
- POLISH 214, 215, 314, 324, 325, 326, 357;
- CZECH 315, 484;
- BCS 436;
- HISTORY 330/POLISH 330;
- HISTORY 331/POLISH 331;
- HISTORY 432, 433, 434.

Courses focused on East European and Eurasian social sciences topics

- ANTHRCUL 309, 507;
- POLSCI 338, 342, 345, 358, 407;
- POLSCI 350/JUDAIC 451;
- POLSCI 397/HISTORY 341;
- ECON 444;
- SOC 457;
- REEES 395/HISTORY 332/SLAVIC 395/SOC 392/POLSCI 395;
- REEES 397/ANTHRCUL 317/HISTORY228/POLSCI 334/SLAVIC 397/SOC 317.

Ecology and Evolutionary Biology Minor

The minor trains biologists interested in the origins and complex interactions of the earth's biodiversity and ecosystems with both the fundamental knowledge in these areas and the basic skills of scientific inquiry. The minor covers the material of the major to a lesser depth for students who wish to supplement a major in another area with additional biological expertise.

Effective Winter 2023

Exclusions:

Students who elect a minor in Ecology and Evolutionary Biology may not elect the following majors: Biology; Biology, Health, and Society (formerly known as General Biology); Plant Biology; Ecology, Evolution, and Biodiversity; Microbiology; or Biochemistry. They may also not elect a minor in Biology or Plant Biology.

The minor in Ecology and Evolutionary Biology is not recommended for students interested in graduate work in the biological sciences.

Advising

Students interested in any major or minor in the biological sciences are encouraged to meet with an advisor to discuss their academic plans as soon as possible! Students should have

completed the introductory biology sequence with a 2.0 or better and be in good academic standing. To make an advising appointment, go to the Program in Biology website at <http://lsa.umich.edu/biology/undergraduates/advising.html>

Grade Policies

Total Credits and GPA Requirement for Ecology and Evolutionary Biology Minor:

Minimum 15 cr. in Minor

Minimum 2.0 GPA in Minor

GPA is calculated from all mandatory prerequisites, all courses used for minor requirements, and all courses in BIOLOGY, EEB, and MCDB.

The introductory biology sequence must be taken for a grade. Courses used for the minor may not be taken pass/fail.

Prerequisites

Introductory Biology Sequence:

Choose Sequence A, B, or C:

- A. BIOLOGY 171, BIOLOGY 172 or 174, & BIOLOGY 173; or
- B. BIOLOGY 195 (AP/IB) & BIOLOGY 173; or
- C. BIOLOGY 191 (transfer credit), BIOLOGY 192, & BIOLOGY 173

Requirements

Minimum Credits: 15

Core Courses:

Select at least two of the three courses listed. (Courses with an asterisk (*) may overlap with the lab requirement.)

- Ecology: BIOLOGY 281 or 282 or EEB 381*
- Genetics: BIOLOGY 305
- Evolution: EEB 390, 391, or 392*

Laboratory/Field Course:

(This requirement may OVERLAP with other minor reqs.)

- Choose one laboratory/field course from the following: BIOLOGY 202, 207, 226, 230, 252, 255, 288; EEB 300*, 313, 320, 321, 330, 341, 348, 372, 373, 381, 391, 392, 400*, 405, 416, 429, 431, 433, 436, 441, 443, 447, 450, 451, 453, 455, 457, 459, 463, 468, 477, 482, 483, 486, 489, 493, 556; MCDB 300*, 306, 308, 400*, 416, 419, 423, 424, 429
**EEB/MCDB 300 or 400 (Independent Research), elected for a minimum of 3 credits in a single term, may be used to fulfill a lab requirement. (3 credit max applies; see CONSTRAINTS below)*

Biodiversity Course:

(Courses with an asterisk (*) may overlap with the lab requirement)

- Choose one course: BIOLOGY 207*, 230*, 252*, 255*, 256, 288*; EEB 330*, 341*, 380 (F17), 420, 431*, 433*, 436*, 440, 442*, 443*, 450*, 451*, 453*, 457*, 468*, 470, 486*, 556*

Additional Courses:

Choose additional specific EEB courses, to reach 15 minor credit hours.

- Exclusions: BIOLOGY 241, BIOLOGY 299, EEB 301, EEB 302, EEB 800, and non-specific (departmental) transfer courses are EXCLUDED

Constraints

- Prerequisites, introductory science courses, and non-specific (departmental) transfer courses are excluded from the 15 cr. required for the minor.
- A maximum of three credits of independent research (BIOLOGY 200, EEB/MCDB 300, or EEB/MCDB 400) may be counted toward the minor.

Ecology and Evolutionary Biology (EEB) (Minor) (Fall 2018 - Fall 2022)

Effective Fall 2018

Exclusions:

Students who elect a minor in Ecology and Evolutionary Biology may not elect the following majors: Biology, Biology, Health, and Society (formerly known as General Biology), Plant Biology, Ecology and Evolutionary Biology, Microbiology, or Biochemistry. They may also not elect a minor in Biology or Plant Biology.

The minor in Ecology and Evolutionary Biology is not recommended for students interested in graduate work in the biological sciences.

Advising

Students are advised by a combination of Undergraduate Biology Office staff and faculty department advisors. Advising topics include investigating majors, declaring a major, course planning, research and Honors, major releases, graduate school and career advice. Students who are interested in the EEB major or minor should consult a general advisor during the freshman year, and are strongly encouraged to meet with a department advisor early in their academic career, but no later than the second term of their sophomore year. It is not necessary to complete every prerequisite before declaring a major. To make an appointment, go to the Program in Biology website at <http://lsa.umich.edu/biology/undergraduates/advising.html>.

Grade Policies

Total Credits and GPA Requirement for Ecology and Evolutionary Biology Minor:

Minimum 15 cr. in Minor

Minimum 2.0 GPA in Minor

GPA is calculated from all mandatory prerequisites, all courses used for minor requirements, and all courses in BIOLOGY, EEB, and MCDB.

Prerequisites

Introductory Biology Sequence:

Choose Sequence A, B, or C:

- A. BIOLOGY 171, BIOLOGY 172 or 174, & BIOLOGY 173; or
- B. BIOLOGY 195 (AP/IB) & BIOLOGY 173; or
- C. BIOLOGY 191 (transfer credit), BIOLOGY 192, & BIOLOGY 173

Requirements

Minimum Credits: 15**Core Courses:**

Select at least two of the three courses listed. (Courses with an asterisk (*) may overlap with the lab requirement.)

- Ecology: BIOLOGY 281 or 282 or EEB 381*
- Genetics: BIOLOGY 305
- Evolution: EEB 390, 391, or 392*

Laboratory/Field Course:

(This requirement may OVERLAP with other minor reqs.)

- Choose one laboratory/field course from the following: BIOLOGY 202, 207, 226, 230, 252, 255, 288; EEB 300*, 313, 320, 321, 330, 341, 348, 372, 373, 381, 391, 392, 400*, 405, 416, 431, 433, 436, 441, 443, 450, 451, 453, 455, 457, 459, 463, 468, 477, 482, 483, 486, 489, 493, 556; MCDB 300*, 306, 308, 400*, 416, 419, 423, 424, 429
**EEB/MCDB 300 or 400 (Independent Research), elected for a minimum of 3 credits in a single term, may be used to fulfill a lab requirement. (3 credit max applies; see CONSTRAINTS below)*

Biodiversity Course:

(Courses with an asterisk (*) may overlap with the lab requirement)

- Choose one course: BIOLOGY 207*, 230*, 252*, 255*, 256, 288*; EEB 330*, 341*, 380 (F17), 420, 431*, 433*, 436*, 440, 442*, 443*, 450*, 451*, 453*, 457*, 468*, 470, 486*, 556*

Additional Courses:

Choose additional specific EEB courses, to reach 15 minor credit hours.

- BIOLOGY 241, BIOLOGY 299, EEB 301, EEB 302, EEB 800, and non-specific (departmental) transfer courses are EXCLUDED

Constraints

- Prerequisites, introductory science courses, and non-specific (departmental) transfer courses are excluded from the 15 cr. required for the minor.
- A maximum of three credits of independent research (BIOLOGY 200, EEB/MCDB 300, or EEB/MCDB 400) may be counted toward the minor.

Ecology and Evolution Biodiversity Major

The Ecology, Evolution, and Biodiversity (EEB) major provides a comprehensive foundation in the biological sciences, places an emphasis on undergraduate research experience, and provides an integrated perspective on the origins and complex interactions of the earth's biodiversity and ecosystems. It focuses on numerous levels of biological organization over multiple time scales, including studies of genes and genomes, individual organisms, populations, communities and ecosystems. The major is highly suitable for students who wish to pursue career pathways in a wide variety of disciplines. These include graduate studies in the biological, public health and medical, dental, and veterinary professions, conservation and natural resource management, teaching at the K-12 level, positions in the local, state and federal governments, non-profit/non-governmental organizations, and private sector opportunities such as environmental consulting

agencies.

Effective Winter 2023

Exclusions:

Students who elect a major in Ecology, Evolution, and Biodiversity may not elect the following majors: Biology; Biology, Health, and Society (formerly known as General Biology); Microbiology; Plant Biology; or Biochemistry. They may also not elect a minor in Biology; Ecology and Evolutionary Biology; Plant Biology; Chemistry; or Biochemistry.

Advising

Students are advised by a combination of Undergraduate Biology Office staff and faculty department advisors. Advising topics include investigating majors, declaring a major, course planning, research and Honors, major releases, graduate school and career advice. Students interested in any major in the biological sciences are encouraged to meet with an advisor to discuss their academic plans as soon as possible! Students need not have completed all of the major prerequisites to declare, but should have completed the introductory biology sequence with a 2.0 or better and be in good academic standing. To make an appointment, go to the Program in Biology website at www.lsa.umich.edu/biology/.

Grade Policies

Total Credits and GPA Requirement for Ecology and Evolutionary Biology:

Minimum 30 cr. in Major

Minimum 2.0 GPA in Major

GPA is calculated from all mandatory prerequisites, all courses used for major requirements (including cognates), and all courses in BIOLOGY, EEB, and MCDB.

The introductory biology sequence must be taken for a grade. Prerequisites other than introductory biology may be taken pass/fail; however, it is not recommended, especially for chemistry. Remember that at least a C- must be earned to pass a course taken pass/fail.

Courses used for the major may not be taken pass/fail.

Prerequisites

Introductory Biology Sequence:

Choose Sequence A, B, or C:

- A. BIOLOGY 171, BIOLOGY 172 or 174, & BIOLOGY 173; or
- B. BIOLOGY 195 (AP/IB) & BIOLOGY 173; or
- C. BIOLOGY 191 (transfer credit), BIOLOGY 192, & BIOLOGY 173

Chemistry Sequence:

- CHEM 210 & 211

Quantitative Analysis Sequence:

Choose three courses from the following options: *[Note: Any course used to fulfill this requirement cannot also be used as a major elective; i.e., a course cannot "double-count."]*

- Calculus 1: MATH 115, 120 (AP), 175, 185, or 295
- Calculus 2: MATH 116, 121 (AP), 156, 176, 186, or 296
- Physics I: PHYSICS 125, 135, 139 (AP), 140, 150, or 160
- Physics II: PHYSICS 126, 235, 239 (AP), 240, 250, or 260

- Computer Programming: EECS 183, 203, and/or 280; COMPFOR 131
- Statistics: [STATS 180 (AP), 206, 250, or 280]; and/or STATS 400-level or above (min. 3 credits)
- BIOLOGY 131
- BIOLOGY 202
- BIOPHYS/PHYSICS 290; BIOPHYS 117
- EARTH 468

Requirements

Minimum Credits: 30

EEB Major Core:

- Ecology Lecture & Lab: (BIOLOGY 281 or 282) & (EEB 372 or 373); **or** EEB 381
- Genetics: BIOLOGY 305
- Evolution: EEB 390, 391, or 392
- Biochemistry or Quantitative Analysis 4 (min. 3 credits): Choose from: MCDB 310; BIOLCHEM 415; CHEM 351; STATS 401, 403, 412, or 425; EECS 281 or 376; EEB 408, 429, 430, 480, or 490; or a fourth (non-AP) course at the 200-level or above from the QA options above.
- EEB capstone: EEB 410

Upper-Level Electives for EEB:

(2 courses, minimum 6 credits)

- EEB 300-level or above
 - Exclusions: EEB 300/400, 301, 302, 397, 399, 499, 800, and non-specific (departmental) transfer courses are EXCLUDED.
- EEB or MCDB 300-level or above
 - Exclusions: EEB/MCDB 300/400, 301, 302, 397, 399, 499, 800, MCDB 360 (*if elected FA19 or later*), 412 (*if elected WN20 or later*), 460 (*if elected FA19 or later*), 461 (*if elected FA19 or later*), and non-specific (departmental) transfer courses are EXCLUDED.

EEB Requirements:

(these may overlap with the Major Core or Electives):

- Biodiversity Focus (BD) [at least one]: BIOLOGY 207, 230, 252, 255, 256, 288; EEB 330, 341, 380 (F17), 420, 431, 433, 436, 440, 442, 443, 450, 451, 453, 455, 457, 468, 470, 486, 556
- Field or Research Experience (FR) [at least one]: EEB 300*, 321, 330, 348, 381, 392, 400*, 405, 431, 443, 453, 455, 457, 482, 493, 556
**EEB/MCDB 300 or 400 (Independent Research), elected for a minimum of 3 credits in a single term, may be used to fulfill the FR requirement. (6 credit max. applies; see CONSTRAINTS below.)*

Additional Courses:

- Choose additional BIOLOGY, EEB, and MCDB courses at the 200-level and above, to reach 30 major credit hours.
 - Exclusions: BIOLOGY 241, BIOLOGY 299, EEB/MCDB 301, EEB/MCDB 302, EEB/MCDB 800, MCDB 412, and non-specific (departmental) transfer courses are EXCLUDED.

- A maximum of two approved cognate courses may be used as additional courses: ANTHR BIO 365, 368, 450,461, BIOLCHEM 415*; BIOMEDE 231; BIOPHYS 290*; CHEM 230 and above*; CLIMATE 320; CMPLXSYS 501, 530; EARTH 320, 418, 436, 437, 450, 453; ENVIRON 310, 317, 450, 453, 461; EPID 543, 560; HUMGEN 541; MATH 200 and above*; MICRBIOL 405, 415, 460; PHYSICS 290* ; PSYCH 337, 338; SPACE 320; STATS 206* (*if elected FA20 or later*), 250*, 280*, 401*

*Courses used as prerequisites or core options may not double-count as additional courses.

Constraints

- A maximum of six credits of independent research (BIOLOGY 200, EEB/MCDB 300/400) may be counted toward the major.
- Prerequisites, introductory science courses, and non-specific (departmental) transfer courses are EXCLUDED from the 30 cr. required for the major.

Distribution Policy

No course used to fulfill a major requirement may be used toward the **LSA Distribution Requirement**. In addition, courses in the BIOLOGY, EEB, MCDB, and MICRBIOL subject areas may not be used toward the Distribution Requirement.

Honors

The Program in Biology administers an Honors Program to train students to conduct independent research in the biological sciences. Participating in the honors program allows students to develop their research skills, deepen their understanding of the field, and form productive relationships with faculty and other students. The achievement is noted on the diploma and official transcript.

In addition to completing all the requirements for the major, an honors degree requires:

1. an overall and major GPA of at least 3.4,
2. participation in at least two terms of independent research, and
3. the completion of a significant piece of independent research that is
 - a. reported in an honors thesis and
 - b. presented in a public forum.

Note that undergraduate research students typically register for an independent research course (as appropriate for their major) during each term of research. Formal course registration is encouraged, but not required. For more information, including the Honors Program application, consult the **Program in Biology Honors Information page**.

Ecology, Evolution, and Biodiversity (EEB) (Major) (Winter 2019 - Fall 2022)

Effective Winter 2019

Exclusions:

Students who elect a major in Ecology, Evolution, and Biodiversity may not elect the following majors: Biology; Biology, Health, and Society (formerly known as General Biology); Microbiology; Plant Biology; or Biochemistry. They may also not elect a minor in Biology; Ecology and Evolutionary Biology; Plant Biology; Chemistry; or Biochemistry.

Advising

Students are advised by a combination of Undergraduate Biology Office staff and faculty department advisors. Advising topics include investigating majors, declaring a major, course planning, research and Honors, major releases, graduate school and career advice. Students who are interested in the EEB major or minor should consult a general advisor during the freshman year, and are strongly encouraged to meet with a department advisor early in their academic career, but no later than the second term of their sophomore year. It is not necessary to complete every prerequisite before declaring a major. To make an appointment, go to the Program in Biology website at www.lsa.umich.edu/biology/.

Grade Policies

Total Credits and GPA Requirement for Ecology and Evolutionary Biology:

Minimum 30 cr. in Major

Minimum 2.0 GPA in Major

GPA is calculated from all mandatory prerequisites, all courses used for major requirements (including cognates), and all courses in BIOLOGY, EEB, and MCDB.

The introductory biology sequence must be taken for a grade. Prerequisites other than introductory biology may be taken pass/fail; however, it is not recommended, especially for chemistry. Remember that at least a C- must be earned to pass a course taken pass/fail.

Courses used for the major may not be taken pass/fail.

Prerequisites

Introductory Biology Sequence:

Choose Sequence A, B, or C:

- A. BIOLOGY 171, BIOLOGY 172 or 174, & BIOLOGY 173; or
- B. BIOLOGY 195 (AP/IB) & BIOLOGY 173; or
- C. BIOLOGY 191 (transfer credit), BIOLOGY 192, & BIOLOGY 173

Chemistry Sequence:

- CHEM 210 & 211

Quantitative Analysis Sequence:

- Quantitative Analysis 1: CALCULUS I: MATH 115, 120 (AP), 175, 185, or 295; and,
- Quantitative Analysis 2: One course from: MATH 116, 121 (AP), 156, 176, 186, or 296; STATS 180 (AP), 206 (*if elected FA20 or later*), 250 or 280; STATS 400-level or above (min. 3 credits); BIOLOGY 202; BIOPHYS/PHYSICS 290; EECS 183, 203 or 280; EARTH 468; or other course with a MATH 115 prereq. chosen in consultation with a major advisor. [*Note: Any course used to fulfill this requirement cannot also be used as a major elective; i.e., a course cannot "double-count."*]

Physics Sequence:

- Physics I (lecture & lab): One of the following combinations: PHYSICS 125 & 127, 135 & 136, 140 & 141, 150 & 151 (*only if taken FA21 or later*), or 160 & 161. PHYSICS 139 (AP) will also fulfill this requirement.

Requirements

Minimum Credits: 30

EEB Major Core:

- Ecology: BIOLOGY 281 and EEB 372 *or* EEB 381 (at UMBS)

- Genetics: BIOLOGY 305
- Evolution: EEB 390, 391, or 392
- Biochemistry or Quantitative Analysis 3 (min. 3 credits): Choose from: MCDB 310; BIOLCHEM 415; CHEM 351; STATS 401, 403, 412, or 425; EECS 281 or 376; EEB 408, 430, 480, or 490; or a second (non-AP) course at the 200-level or above from the QA2 options above.
- EEB capstone: EEB 410

Upper-Level Electives for EEB:

(2 courses, minimum 6 credits)

- EEB 300-level or above
 - EEB 300/400, 301, 302, 397, 399, 499, 800, and non-specific (departmental) transfer courses are EXCLUDED.
- EEB or MCDB 300-level or above
 - EEB/MCDB 300/400, 301, 302, 397, 399, 499, 800, MCDB 360 (*if elected FA19 or later*), 412 (*if elected WN20 or later*), 460 (*if elected FA19 or later*), 461 (*if elected FA19 or later*), and non-specific (departmental) transfer courses are EXCLUDED.

EEB Requirements:

(these may overlap with the Major Core or Electives):

- Biodiversity Focus (BD) [at least one]: BIOLOGY 207, 230, 252, 255, 256, 288; EEB 330, 341, 380 (F17), 420, 431, 433, 436, 440, 442, 443, 450, 451, 453, 457, 468, 470, 486, 556
- Field or Research Experience (FR) [at least one]: EEB 300*, 321, 330, 348, 381, 392, 400*, 405, 431, 443, 453, 455, 457, 482, 493, 556
**EEB/MCDB 300 or 400 (Independent Research), elected for a minimum of 3 credits in a single term, may be used to fulfill the FR requirement. (6 credit max. applies; see CONSTRAINTS below.)*

Additional Courses:

- Choose additional BIOLOGY, EEB, and MCDB courses at the 200-level and above, to reach 30 major credit hours.
 - BIOLOGY 241, BIOLOGY 299, EEB/MCDB 301, EEB/MCDB 302, EEB/MCDB 800, MCDB 412, and non-specific (departmental) transfer courses are EXCLUDED.
- A maximum of two approved cognate courses may be used as additional courses: ANTHRIBIO 365, 368, 461, BIOLCHEM 415*; BIOMEDE 231; BIOPHYS 290; CHEM 230 and above*; CLIMATE 320; CmplxSys 501, 530; EARTH 320, 418, 436, 437, 450, 453; ENVIRON 310, 317, 450, 453, 461; EPID 543, 560; HUMGEN 541; MATH 200 and above*; MICRBIOL 405, 415, 460; PHYSICS 290 ; PSYCH 337, 338; SPACE 320; STATS 206 (*if elected FA20 or later*), 250*, 280*, 401

(*Courses used as prerequisites or core options may not double-count as additional courses.)

Constraints

- A maximum of six credits of independent research (BIOLOGY 200, EEB/MCDB 300/400) may be counted toward the major.
- Prerequisites, introductory science courses, and non-specific (departmental) transfer courses are EXCLUDED from the 30 cr. required for the major.

Distribution Policy

No course used to fulfill a major requirement may be used toward the **LSA Distribution Requirement**. In addition, courses in the BIOLOGY, EEB, MCDB, and MICRBIOL subject areas may not be used toward the Distribution Requirement.

Honors

The Program in Biology administers an Honors Program to train students to conduct independent research in the biological sciences. Participating in the honors program allows students to develop their research skills, deepen their understanding of the field, and form productive relationships with faculty and other students. The achievement is noted on the diploma and official transcript.

In addition to completing all the requirements for the major, an honors degree requires:

1. a major GPA of at least 3.4, and
2. the completion of a significant piece of independent research that is
 - a. reported in an honors thesis and
 - b. presented in a public forum.

For more information, consult the **Program in Biology Honors Program Information page** or a Program in Biology advisor.

Economics Major

Economists study the choices people make when allocating limited resources among competing uses. They seek to describe, explain, predict, and evaluate the behaviors of individual households, business enterprises, and government agencies. They also seek to describe, explain, predict, and evaluate the aggregate outcomes of those behaviors in individual markets, individual countries, and the world. While much of their work examines interactions among actors in market settings, economists also examine behavior inside households, inside companies, and inside government agencies.

Economists use a rich set of tools and methods, including abstract mathematical modeling and formal statistical analysis. Undergraduate economists need a solid background in calculus and statistics.

The study of economics prepares undergraduates exceptionally well for careers in business, consulting, finance, law, politics, public and private administration, and teaching. Many professional economists, including virtually all academic economists, have earned doctorates in the discipline.

Undergraduates study economics for many reasons. To accommodate this diversity, the Department of Economics offers a wide variety of courses, beginning with a mainstay of a liberal arts education, the two-semester sequence in the principles of economics. Given the multiplicity of paths through the departmental curriculum, students interested in majoring or minoring in economics should consult a departmental adviser as early as possible in their studies. The department's website presents several possible strategies for completing the major.

Effective Winter 2023

Advising

Students interested in a major or minor in Economics should consult an economics department advisor. Appointments are scheduled online at: <http://lsa.umich.edu/econ/undergraduates/departmental-advising.html>

Students are urged to consult with a department advisor each term before selecting courses for the following term.

Economics Undergraduate Office. The undergraduate office is located at 238 Lorch Hall, (734) 763-9242. The Student Services Assistant for the economics undergraduate program is available to answer questions about requirements for the major, course offerings, wait-list procedures, career/job information, economics networking program, and other matters concerning the undergraduate program. Walk-in advising is available every Monday and Thursday between 2-3pm.

Prerequisites

ECON 101 and 102 and MATH 115, each completed with a grade of C or better. MATH 120 may not be substituted for MATH 115. MATH 116, 121, 156, 176, 185, 186, 215, 216, 255, 256, 285, 286, 295, or 296 may be substituted for MATH 115.

To declare an Economics major, schedule an appointment with an Economics Department advisor. Students must complete the prerequisites to the major before declaring and must have a GPA of 2.0 or better in the major.

Students interested in advanced economics are strongly encouraged to continue the study of mathematics beyond MATH 115. Note that MATH 116 (Calculus II) is a prerequisite for ECON 451 and that MATH 215 (Calculus III) and MATH 217 (Linear Algebra) are prerequisites for ECON 453.

Requirements

Minimum Credits: 30

1. Core Economic Theory

- ECON 401, completed with a grade of C– or better.
- ECON 402, completed with a grade of C– or better.
(ECON 401 should be elected before ECON 402.)

2. Core Statistics and Econometrics

- STATS 206, STATS 250 or 280 (Basic), or STATS 426 or ECON 451 (Intermediate), or ECON 453 (Advanced), completed with a grade of C– or better.
- ECON 251(Basic), or ECON 452 (Intermediate), or ECON 454 (Advanced); completed with a grade of C– or better.

3. Electives: 15 additional credits in upper-level (300 and 400 level) ECON courses, including at least nine credits in 400 level courses with ECON 401 or ECON 402 as a prerequisite.

ECON 401 and 402, and STATS 206, STATS 250, STATS 280, ECON 251, 451, 452, 453, 454 do not count toward this elective requirement for the major.

No more than 3 credits of independent study courses (ECON 497, 498, and 499) may be counted

toward the elective requirement. ECON 499 may be counted toward the elective requirement only with approval of an Economics Department advisor.

Any 600-level course in Economics may be counted as an elective with ECON 401 or ECON 402 as a prerequisite, but undergraduate election of a 600-level course requires approval of the instructor.

All students intending to major in Economics should endeavor to complete the core requirements in economic theory and in statistics and econometrics before the second term of the junior year.

Other Department Policies

AP Credits

The Department of Economics does not give AP credit for ECON 101 or ECON 102. Whenever the department lists ECON 101 or ECON 102 as a prerequisite, the department does not accept AP credit as a substitute.

Students achieving a 4 or 5 on the AP Microeconomics exam receive 2 credits for ECON 101X, and students achieving a 4 or 5 on the AP Macroeconomics exam receive 2 credits for ECON 102X. As prerequisites for other courses in Economics and as prerequisites for the Economics major and minor, ECON 101X does not substitute for ECON 101, and ECON 102X does not substitute for ECON 102. Students receiving 2 credits for ECON 101X may take ECON 101 and receive 4 credits for ECON 101. Students who receive 2 credits for ECON 102X may take ECON 102 and receive 4 credits for ECON 102. Thus, anyone who intends to major in economics, to minor in economics, or to take electives in economics at the 300 or 400 level should enroll in ECON 101 and/or ECON 102.

Students intending to apply to the BBA program should consult carefully the requirements of the Business School. As of this writing, the Business School does not accept ECON 101X as a substitute for ECON 101, and it does not accept ECON 102X as a substitute for ECON 102.

Advanced placement credits in MATH 121 may be substituted for MATH 115. Credits in MATH 120 alone do not satisfy the mathematics prerequisite for an economics major or minor. Students with credit for MATH 120 may satisfy the mathematics prerequisite for the Economics major by completing, with a grade of at least C, MATH 115, MATH 116, or one of the Honors alternatives to these courses.

Residency

Ann Arbor campus requirement

To count toward the major, any course not taken on the Ann Arbor campus of the University should be approved in advance by an Economics Department Advisor.

ECON 401 and 402 must be taken on the Ann Arbor campus of the University.

To count toward the major, at least four credits of 400-level electives with ECON 401 or ECON 402 as a prerequisite must be taken on the Ann Arbor campus of the University.

Distribution Policy

No course used to fulfill a major requirement may be used toward the **LSA Distribution**

Requirement. In addition, courses in the ECON subject area may not be used toward the Distribution Requirement.

Honors

Qualified students are encouraged to consider an Honors subplan in Economics. The standards for admission are a cumulative grade point average of at least 3.4. Application is made and admission is granted to the Honors plan in the fall term of either the junior or senior year.

Honors majors are required to complete the requirements for a regular major in Economics.

An Honors plan must include

1. One of: ECON 451 or ECON 453 or STATS 426
2. One of: ECON 452 or ECON 454.
3. One credit of ECON 497.

Being a requirement, the first credit of ECON 497 does not count toward the elective requirement for the major. Honors students may complete a second credit of ECON 497; students who do may apply this second credit towards the elective requirement (subject to the limit on non-didactic credits) by requesting assistance from an Economics Department advisor.

In addition, Honors majors must complete a senior Honors thesis. The senior Honors thesis is an independent research project completed by the student under the direction of a faculty advisor and the Director of the Honors Program in Economics. Honors majors are given priority in election of one section of ECON 495 (Seminar in Economics).

Economics (Major) (Fall 2022)

Effective Fall 2022

Advising

Students interested in a major or minor in Economics should consult an economics department advisor. Appointments are scheduled online at: <http://lsa.umich.edu/econ/undergraduates/departmental-advising.html>

Students are urged to consult with a department advisor each term before selecting courses for the following term.

Economics Undergraduate Office. The undergraduate office is located at 238 Lorch Hall, (734) 763-9242. The Student Services Assistant for the economics undergraduate program is available to answer questions about requirements for the major, course offerings, wait-list procedures, career/job information, economics networking program, and other matters concerning the undergraduate program. Walk-in advising is available every Monday and Thursday between 2-3pm.

Prerequisites

ECON 101 and 102 and MATH 115, each completed with a grade of C or better. MATH 120 may not be substituted for MATH 115. MATH 116, 121, 156, 176, 185, 186, 215, 216, 255, 256, 285, 286, 295, or 296 may be substituted for MATH 115.

To declare an Economics major, schedule an appointment with an Economics Department advisor. Students must complete the prerequisites to the major before declaring and must have a GPA of 2.0 or better in the major.

Students interested in advanced economics are strongly encouraged to continue the study of mathematics beyond MATH 115. Note that MATH 116 (Calculus II) is a prerequisite for ECON 451 and that MATH 215 (Calculus III) and MATH 217 (Linear Algebra) are prerequisites for ECON 453.

Requirements

Minimum Credits: 30

1. **Core Economic Theory**
 - ECON 401, completed with a grade of C– or better.
 - ECON 402, completed with a grade of C– or better.
(ECON 401 should be elected before ECON 402.)
2. **Core Statistics and Econometrics**
 - STATS 206, STATS 250 or 280 (Basic), or STATS 426 or ECON 451 (Intermediate), or ECON 453 (Advanced), completed with a grade of C– or better.
 - ECON 251(Basic), or ECON 452 (Intermediate), or ECON 454 (Advanced); completed with a grade of C– or better.
3. **Electives:** 15 additional credits in upper-level (300 and 400 level) ECON courses, including at least nine credits in 400 level courses with ECON 401 or ECON 402 as a prerequisite.

ECON 401 and 402, and STATS 206, STATS 250, STATS 280, ECON 251, 451, 452, 453, 454, and as of WN22, ECON 497 do not count toward the elective requirement for the major.

Any 600-level course in Economics may be counted as an elective with ECON 401 or ECON 402 as a prerequisite, but undergraduate election of a 600-level course requires approval of the instructor.

All students intending to major in Economics should endeavor to complete the core requirements in economic theory and in statistics and econometrics before the second term of the junior year.

Other Department Policies

AP Credits

The Department of Economics does not give AP credit for ECON 101 or ECON 102. Whenever the department lists ECON 101 or ECON 102 as a prerequisite, the department does not accept AP credit as a substitute.

Students achieving a 4 or 5 on the AP Microeconomics exam receive 2 credits for ECON 101X, and students achieving a 4 or 5 on the AP Macroeconomics exam receive 2 credits for ECON 102X. As prerequisites for other courses in Economics and as prerequisites for the Economics major and minor, ECON 101X does not substitute for ECON 101, and ECON 102X does not substitute for ECON 102. Students receiving 2 credits for ECON 101X may take ECON 101 and receive 4 credits for ECON 101. Students who receive 2 credits for ECON 102X may take ECON 102 and receive 4 credits for ECON 102. Thus, anyone who intends to concentrate in economics, to minor in economics, or to take electives in economics at the 300 or 400 level should enroll in ECON 101 and/or ECON 102.

Students intending to apply to the BBA program should consult carefully the requirements of the Business School. As of this writing, the Business School does not accept ECON 101X as a substitute for ECON 101, and it does not accept ECON 102X as a substitute for ECON 102.

Advanced placement credits in MATH 121 may be substituted for MATH 115. Credits in MATH 120 alone do not satisfy the mathematics prerequisite for an economics major or minor. Students with credit for MATH 120 may satisfy the mathematics prerequisite for the Economics major by completing, with a grade of at least C, MATH 115, MATH 116, or one of the Honors alternatives to these courses.

Residency

Ann Arbor campus requirement

To count toward the major, any course not taken on the Ann Arbor campus of the University should be approved in advance by an Economics Department Advisor.

ECON 401 and 402 must be taken on the Ann Arbor campus of the University.

To count toward the major, at least four credits of 400-level electives with ECON 401 or ECON 402 as a prerequisite must be taken on the Ann Arbor campus of the University.

Distribution Policy

No course used to fulfill a major requirement may be used toward the **LSA Distribution Requirement**. In addition, courses in the ECON subject area may not be used toward the Distribution Requirement.

Honors

Qualified students are encouraged to consider an Honors subplan in Economics. The standards for admission are a cumulative grade point average of at least 3.4. Application is made and admission is granted to the Honors plan in the fall term of either the junior or senior year.

Honors majors are required to complete the requirements for a regular major in Economics.

An Honors plan must include

1. One of: ECON 451 or ECON 453 or STATS 426
2. One of: ECON 452 or ECON 454.
3. At least one semester of ECON 497.

In addition, Honors majors must complete a senior Honors thesis. The senior Honors thesis is an independent research project completed by the student under the direction of a faculty advisor and the Director of the Honors Program in Economics. Honors majors are given priority in election of one section of ECON 495 (Seminar in Economics).

Economics Minor

A minor in economics provides a useful background for students seeking careers in law, business, government, journalism, and teaching. Students concentrating in one of the other social sciences are often interested in economic issues and the study of economics provides them with tools useful for analyzing the economic aspects of issues in these other disciplines. The analytic

skills and knowledge of economic institutions developed in the pursuit of the minor in economics will be useful to students in all disciplines who will be contributing to business and public policy decisions. Students completing the minor in economics develop analytical skills through exploring the paradigms of microeconomics and macroeconomics at the intermediate level and increase their understanding of economics institutions and of application of economic principles.

As a social science, economics is concerned with people in their roles as economic decision makers. Economists study how business and personal decisions are made under conditions of uncertainty and incomplete information, and they provide insight into problems involving both short- and long-term planning, such as investment and savings decisions.

Economic problems are central to modern society; they center around the utilization of limited resources to provide goods and services for society. Consequently, a broad understanding of the modern world requires some knowledge of economic systems. An individual's intelligent understanding of and participation in the solution of problems which face society is aided by an understanding of the point of view and techniques of analysis which have been developed by economists.

A major in Economics leads to a more detailed understanding of the modern economic world and provides a useful background for students seeking careers in law, business, government, journalism, and teaching. A strong grounding in both theoretical and applied aspects of economics allows students to use their knowledge to understand economic behavior and provides a basis for evaluating economic policy.

The introductory courses (ECON 101 and 102) offered by the department are designed to provide basic knowledge as well as to serve as a foundation for other courses in economics for students who wish to pursue the subject at an intermediate or advanced level.

Virtually all empirical work in economics relies on statistical and econometric analysis. No one can understand or evaluate empirical economics, let alone perform it, without solid grounding in the tools of econometrics. Our curriculum requires a two-course sequence in statistics and econometrics. Student may choose from three different sequences that differ in emphasis (practical, applications, concepts, or foundations) and in mathematical preparation (Calc I, Calc II, or Calc II + linear algebra).

Students who wish to attain professional competence as economists in preparation for careers in research or in college or university teaching normally plan on graduate work in economics.

Effective Winter 2020

Exclusions:

Academic minor in Economics is not open to students with a major in the Department of Economics.

Advising

Students interested in a major or minor in Economics should consult an economics department advisor. Appointments are scheduled online at: www.lsa.umich.edu/econ/undergraduatestudy/departmentaladvising

Students are urged to consult with a department advisor each term before selecting courses for the following term.

Economics Undergraduate Office. The undergraduate office is located at 238 Lorch Hall, (734) 763-9242. The Student Services Assistant for the economics undergraduate program is available to answer questions about requirements for the major, course offerings, wait-list procedures, career/job information, economics networking program, and other matters concerning the undergraduate program. Walk-in advising is available on Mondays and Thursdays between 2-3pm.

Prerequisites

ECON 101 and 102 and MATH 115, each completed with grade at least C. One of the Honors alternatives to MATH 115 may be substituted for MATH 115. Advanced placement credits in MATH 121 may be substituted for MATH 115. Credits in MATH 120 alone do not satisfy the mathematics prerequisite for an economics major or minor. Students with this credit may complete the economics mathematics prerequisite by completing, with a grade of at least C, MATH 115, MATH 116, or one of the Honors alternatives to these courses.

Requirements

Minimum Credits: 17

17 credits in ECON at the 300-level and above, distributed as follows:

1. ECON 401: Intermediate Microeconomics and ECON 402: Intermediate Macroeconomics, each completed with a grade of at least C- [ECON 401 should be taken before ECON 402.]
2. Nine additional credits in upper level (300 and 400 level) ECON courses, including at least 3 credits in 400 level courses with ECON 401 or ECON 402 as a prerequisite.

One (but only one) of ECON 452 and 454 may be counted toward this requirement. Neither ECON 451 nor 453 may be counted toward this requirement.

Other Department Policies

The Department of Economics does not give AP credit for ECON 101 or ECON 102. Whenever the department lists ECON 101 or ECON 102 as a prerequisite, the department does not accept AP credit as a substitute.

Students achieving a 4 or 5 on the AP Microeconomics exam receive 2 credits for ECON 101X, and students achieving a 4 or 5 on the AP Macroeconomics exam receive 2 credits for ECON 102X. As prerequisites for other courses in Economics and as prerequisites for the Economics major and minor, ECON 101X does not substitute for ECON 101, and ECON 102X does not substitute for ECON 102. Students receiving 2 credits for ECON 101X may take ECON 101 and receive 4 credits for ECON 101. Students who receive 2 credits for ECON 102X may take ECON 102 and receive 4 credits for ECON 102. Thus, anyone who intends to concentrate in economics, to minor in economics, or to take electives in economics at the 300 or 400 level should enroll in ECON 101 and/or ECON 102.

Students intending to apply to the BBA program should consult carefully the requirements of the Business School. As of this writing, the Business School does not accept ECON 101X as a

substitute for ECON 101, and it does not accept ECON 102X as a substitute for ECON 102.

Advanced placement credits in MATH 121 may be substituted for MATH 115. Credits in MATH 120 alone do not satisfy the mathematics prerequisite for an economics major or minor. Students with credit for MATH 120 may satisfy the mathematics prerequisite for the Economics major by completing, with a grade of at least C, MATH 115, MATH 116, or one of the Honors alternatives to these courses.

Residency

Ann Arbor campus requirement

To count toward the minor, any course not taken on the Ann Arbor campus of the University should be approved in advance by an Economics Department Advisor.

ECON 401 and 402 must be taken on the Ann Arbor campus of the University.

To count toward the minor, at least three credits of 400-level electives with ECON 401 or ECON 402 as a prerequisite must be taken on the Ann Arbor campus of the University.

Education for Empowerment

The *Education for Empowerment* minor offers undergraduate students who are interested in education the opportunity to explore the critical role education plays in building our individual and collective capacity to advance the aims of democracy and justice in civil society. The intended audience is those undergraduates majoring in a liberal arts discipline who would like to explore the intersections of that discipline and the work of education -- that is, learning and teaching, broadly defined, in a range of diverse roles and contexts. The minor invites students to grapple with questions such as:

- What is the relationship, both historically and today, between education and power?
- How do individuals, communities, organizations, and societies leverage learning and teaching as necessary tools for social change?
- Beyond schools and classrooms, what are the sites of educational and youth work that offer opportunities to advance justice in public life?

The Education for Empowerment minor is designed for students interested in examining the critical role of education in building our individual and collective capacity to advance the aims of justice and democracy in society.

Students will explore questions such as the following:

- What is the relationship, historically and today, between education and power?
- How do individuals, communities, organizations, and societies leverage teaching and learning as tools for social change and social movement?
- Beyond schools and classrooms, what are the sites of educational and youth work that offer opportunities to advance justice, in the United States and around the world?
- How might we develop our imagination for humanizing educational spaces—both within and beyond schools—that recognize everyday people’s power in the ongoing

struggle for justice?

Requirements

Total Credit Hours

Required: 15

Foundation credits: 3

Students choose one of the following courses:

- EDUC 118 – Introduction to Education: Schooling and Multicultural Society
- EDUC 119 – Education Policy in a Multicultural Society
- EDUC 200 – Learning for Social Change
- EDUC 250 – Growing Up in School: Education and Development in Global Contexts*

* *EDUC 250 is the recommended foundation course for the Education in a Global Context pathway.*

Elective credits

9

Students choose any three from a single pathway (see below). A course may not be used as both a required foundation and an elective.

We currently offer three pathways from which to choose, but students may petition to create their own individualized strand of coherent coursework, with the support and approval of an advisor.

Internship credits

2

Students complete EDUC 330 – The Education for Empowerment Internship. The goal of the Education for Empowerment internship experience is to give students practical field experience in education work, broadly conceived. Although not tightly defined as formal teaching and learning activity, in all cases, the work must have some relevance to education and, specifically, to the student's selected pathway.

Each student in the Education for Empowerment minor shall register for two credits of internship experience. These two credits can be earned by enrolling in one or more internship experiences. The internship can be taken in a single semester (for 2 credits), or over two semesters (1 credit per semester).

Capstone credits

1

Students complete EDUC 480 – The Education for Empowerment Capstone.

All students will complete the minor with a one-credit mandatory capstone course. The capstone

asks students to consider their learning across all their courses and reflect on how the totality of their experiences informs their thinking about the role of education in the empowerment of children, youth, and/or adults. Students will create and present a multimedia presentation to illustrate their learning about education for empowerment.

Pathways

Advancing Equity Through Education

PolicyChildren and Youth in Context

Design Your Own

Pathway Education in a

Global Context

AVAILABLE PATHWAYS

Advancing Equity Through Education Policy

For students working at the intersections of public policy and education, this pathway focuses on policy inquiry, design, and implementation that intervene in the problems of educational injustice and social inequities.

Course	Description
MUSED 111**	The Art of Music Teaching
EDUC 119	Education Policy in a Multicultural Society
EDUC 210	Mathematics and Social Justice
EDUC 211	Introduction to Educational Policy, Inquiry and Advocacy

Course	Description
EDUC 220	Coaching for Today's Society
EDUC 240	Coaching as Leading and Leading as Coaching
EDUC 275	Wellness for Learning, Teaching, Coaching, and Leadership
ECON 325	Economics of Education
EDUC 332	Coaching and Consulting for Social Change
EDUC 362	Michigan Student Caucus
RCSSCI 365	Excellence, Equity, and the Politics of Education
EDCURINS 382	Introduction to Environmental Education for Sustainable Development

EDUC 390 /ELI 390 / LING 390 / RCSSCI 390	Community-Engaged Learning in ESL Teaching Contexts
SOC 458	Sociology of Education
EDUC 460	Equity in Everyday Practices

Electrical Engineering Minor

As the lines between engineering and scientific disciplines become increasingly blurred, many students are forced to make tough decisions about which concentration to choose. An academic minor in Electrical Engineering (EE), offered through the ECE division of the EECS Department, is designed to provide an avenue for a diverse education for students outside of the EECS department. Due to the extensive breadth of EE discipline areas, students seeking an academic minor in EE have a spectrum of choices for the program paths they choose. Path options include Applied Electromagnetics, Circuits, Communications, Control Systems, Optics, Signal Processing, and Solid State.

Intended Audience. While the academic minor would be open to all qualified students in LSA, it is expected to be of interest primarily to students in the Physical Sciences (who both use complex electronics and signal processing to collect and analyze data, and also contribute to improved electronic devices), Mathematics (improved algorithms for a wide variety of applications including signal processing, communications, and control), and Life Sciences (electronics, signal processing, and electromagnetics for research and patient treatment). It may also be of interest for students in pre-law programs planning a career in patent law, or in other areas.

A Minor in Electrical Engineering (EE) provides an avenue for a diverse education for students and can enhance your experience with any number of other fields. EE provides you with all the tools you need to be a leader in technology, scientific discovery, or any career of your choice. Not to mention, EE gives you some of employers' most sought-after skillsets!

Program Information

To declare a minor in EE, you'll need:

- To be declared in a major (other than CE or EE!)
- To have finished at least one full semester at U of M
- An overall GPA of 2.0 or better
- To have credit (either by transfer or letter grade) for at least one class in each of the following categories
 - Calculus (such as MATH 115, 116, 120, 121)
 - Calculus based physics lectures (such as PHYSICS 140 or 160) or chemistry lecture (CHEM 130)
 - Required engineering courses (such as ENGR 100, 101, 151 or EECS 180)

For more information about the structure of this program, see the guide below:

EE Minor Program Guide

Energy Science and Policy Minor

Energy underlies all of our modern technological, social, political, economic and ecological systems. Yet, the general public has little knowledge of the concept of energy and how it is woven into the very fabric of society. On the one hand energy is an abstract idea of physics, and on the other hand it is a material realization in fuels and machines. Energy is obviously visible in the gasoline we consume, less visible in the electricity we use, and almost invisible in a vast array of uses such as in delivery of medical treatment, education, social infrastructure, and public safety. Every academic discipline connects in some way to energy along its many paths from the extraction of fuels and materials to eventual end uses. Hence, the topic of energy can and should act as a medium and vehicle for the exchange of ideas among disparate fields. Ultimately, what we see as “energy” depends on resources extracted from nature and on the impacts that our uses of energy have on nature and the environment. The energy-use trajectory that the world is now tracking will, at some time, asymptotically or catastrophically, bump into fundamental constraints that will reshape the energy landscape. Broadly stated: Are our energy systems sustainable? If not, what could the world do differently?

In our current era, energy is so fundamental to every intellectual and practical endeavor that students should have the opportunity to study systematically energy problems in their various manifestations. Students will learn that “energy problems” are systems problems, in which system-constructs within various disciplines are interconnected across disciplines. The minor in *“Energy Science and Policy”* provides the fundamentals for understanding what energy is and provides students with a coherent and rigorous introduction to the technical, social, and cultural contexts of contemporary problems related to “energy.” Generally, students will come to understand how the pedagogical aims of their chosen discipline – whether through critical writing, quantitative problem solving, or close analysis converge in the intersections of “energy problems.”

Effective Winter 2023

Advising

Students interested in declaring either a major or a minor must attend an information session. Information sessions are held throughout the Fall and Winter terms. Appointments may be scheduled with Program advisors **on-line**.

Prerequisites

None.

Requirements

Minimum Credits: 15

This minor requires no fewer than five courses for a total of at least 15 credits, with at least two courses at the 300-level or above.

1. **Introductory Course (one course; 3 credits minimum)** – students take one, or both, of

the following courses that will provide a sound introductory scientific orientation that is fundamental to understanding the basic concepts of energy:

- BIOLOGY 101: Food, Energy, and Environmental Justice
- ENVIRON 250 / CMPLXSYS 250 / PUBPOL 250: Social Systems, Energy, and Policy
- PHYSICS 210: Energy for the Future

2. **Topics Courses:** (four courses, and a minimum 12 credits, with at least two courses at the 300-level or above).

Students must take at least two courses representing approaches outside of or different from that of their area of concentration (e.g., humanists will have to take two topics courses from outside the humanities).

Select

- two courses from the Energy Economics & Policy group
- two courses from the Energy Production, Extraction & Technology group

OR select

- two courses from one of the above categories
- one course from the other of the above categories
- one Breadth course

Energy Economics & Policy

- ARCH 357 / UP 357: Architecture, Sustainability and the City: Ideas, Forces and People Shaping the Built Environment.
- CEE 307 / ENVIRON 407: Sustainable Cities.
- CEE 588: Sustainability Finance: Investment Models for Green Growth.
- EAS 527: Energy Markets and Energy Politics.
- EAS 574: Sustainable Energy Systems.
- ECON 370 / ENVIRON 375: Environmental and Resource Economics.
- ECON 437: Energy Economics and Policy.
- EHS 588 / ENVIRON 475 / NRE 475: Environmental Law.
- ENVIRON 235: Environmental Economics, Policy, and Justice.
- ENVIRON 312 / POLSCI 380 / PUBPOL 312: Environmental Politics and Policy.
- ENVIRON 375 / ECON 370: Environmental and Resource Economics.
- ENVIRON 380: Natural Resources, Economics, and the Environment.
- ENVIRON 407 / CEE 307: Sustainable Cities.
- ENVIRON 475 / NRE 475 / EHS 588: Environmental Law.
- GEOG 472 / UP 572: Transportation and Land-Use Planning.
- INTLSTD 401: International Studies Advanced Seminar, section titled “Politics of Energy in the Developing World.”
- NRE 475 / ENVIRON 475 / EHS 588: Environmental Law.
- POLSCI 380 / ENVIRON 312 / PUBPOL 312: Environmental Politics and Policy.
- POLSCI 389: Topics in Contemporary Political Science, section titled “Energy Politics”.
- POLSCI 497: Undergraduate Seminar in Comparative and Foreign Government, section titled “Politics of Energy in the Developing World.”
- PUBPOL 312 / ENVIRON 312 / POLSCI 380: Environmental Politics and Policy.
- PUBPOL 564: Government Regulation of Industry and Environment.
- UP 357 / ARCH 357: Architecture, Sustainability and the City: Ideas, Forces and People Shaping the Built Environment.
- UP 572 / GEOG 472: Transportation and Land-Use Planning.

- UP 671: Public Policy and Transportation.

Energy Production, Extraction & Technology

- AUTO 533 / MECHENG 433: Advanced Energy Solutions.
- CEE 230: Energy and Environment.
- CEE 265: Sustainable Engineering Principles
- CEE 565 / ESENG 501: Seminars on Energy Systems, Technology and Policy.
- CEE 586: Industrial Ecology
- EARTH 344 / ENVIRON 344: Sustainable and Fossil Energy: Options and Consequences.
- EARTH 380 / ENVIRON 380: Mineral Resources, Economics and the Environment.
- EECS 418: Power Electronics
- EECS 463: Power System Design and Operation
- EECS 498: Special Topics, section title “Grid Integration of Alternative Energy Sources”.
- EECS 598: Special Topics, sections titled “Solar Cell Device Physics” or “Resonant Power Converters”.
- ENVIRON 344 / EARTH 344: Sustainable and Fossil Energy: Options and Consequences.
- ENVIRON 380 / EARTH 380: Mineral Resources, Economics and the Environment.
- ENVIRON 403: Introduction to GIS in the Earth Sciences
- ENVIRON 404: Cars, Sustainability, and Energy Conversion
- ENVIRON 411: Principles of Geographic Information Systems
- ESENG 501 / CEE 565: Seminars on Energy Systems, Technology and Policy.
- MECHENG 433 / AUTO 533: Advanced Energy Solutions.
- MECHENG 438: Internal Combustion Engines.
- NERS 211: Introduction to Nuclear Engineering and Radiological Sciences
- NRE 574 / PUBPOL 519 / RCNSCI 419: Sustainable Energy Systems.
- PHYSICS 406: Statistical and Thermal Physics.
- PUBPOL 519 / RCNSCI 419 / NRE 574: Sustainable Energy Systems.
- RCNSCI 419 / PUBPOL 519 / NRE 574: Sustainable Energy Systems.

Breadth Courses

- AAS 359 / POLSCI 359: African Politics.
- AAS 432: Violent Environments: Oil, Development and the Discourse of Power.
- ANTHRCUL 439: Economic Anthropology and Development.
- AOSS 480 / NRE 480: Climate Change: The Move to Action.
- ARTDES 250: Art, Design and the Environment.
- CEE 265: Sustainable Engineering Principles.
- CHE 230: Material and Energy Balances.
- EARTH 284 / ENVIRON 284: Environmental Geology
- ECON 432: Government Regulation of Industry.
- ECON 445: The Economy of the People’s Republic of China.
- ENGLISH 319: Literature and Social Change, section titled “The Literature of Climate Change”.
- ENGLISH 320: Literature and the Environment, section titled Ecocriticism
- ENVIRON 221 / HISTORY 222: Global Environmental History.
- ENVIRON 224 / HISTORY 224 / PUBPOL 224: Global Nuclear Proliferation.
- ENVIRON 284 / EARTH 284: Environmental Geology

- ENVIRON 304: Literature and the Environment, section titled Ecocriticism.
- ENVIRON 365: International Environmental Policy.
- ENVIRON 412 / PUBPOL 412: Environmental Values in Public Policy.
- ES 445 / STRATEGY 445: Base of the Pyramid: Business Innovation for Solving Society's Problems.
- GERMAN 326: Intermediate German, section titled "Germany and the Environment"
- HISTORY 222 / ENVIRON 221: Global Environmental History.
- HISTORY 224 / ENVIRON 224 / PUBPOL 224: Global Nuclear Proliferation.
- HISTORY 241: America and Middle Eastern Wars.
- HISTORY 285 / RCNSCI 275: Science, Technology, Medicine, and Society.
- NRE 480 / AOSS 480: Climate Change: The Move to Action.
- PHIL 351: Ethics
- POLSCI 359 / AAS 359: African Politics.
- POLSCI 364: Public International Law.
- PUBHLTH 382: Population Health Determinants and Disparities
- PUBPOL 224 / HISTORY 224 / ENVIRON 224: Global Nuclear Proliferation.
- PUBPOL 412 / ENVIRON 412: Environmental Values in Public Policy.
- RCNSCI 275 / HISTORY 285: Science, Technology, Medicine, and Society.
- STRATEGY 400: Strategies for Sustainable Development
- STRATEGY 445 / ES 445: Base of the Pyramid: Business Innovation for Solving Society's Problems.

Energy Science and Policy Minor (Minor) (Winter 2016 - Fall 2022)

Effective Winter 2016

Advising

Students interested in declaring either a major or a minor must attend an information session. Information sessions are held throughout the Fall and Winter terms. Appointments may be scheduled with Program advisors **on-line**.

Prerequisites

None.

Requirements

Minimum Credits: 15

This minor requires no fewer than five courses for a total of at least 15 credits, with at least two courses at the 300-level or above.

1. **Introductory Course (one course; 3 credits minimum)** – students take one, or both, of the following courses that will provide a sound introductory scientific orientation that is fundamental to understanding the basic concepts of energy:
 - ENVIRON 250 / CMPLXSYS 250 / PUBPOL 250: Social Systems, Energy, and Policy
 - PHYSICS 210: Energy for the Future
2. **Topics Courses:** (four courses, and a minimum 12 credits, with at least two courses at the 300-level or above).
Students must take at least two courses representing approaches outside of or different from that of their area of concentration (e.g., humanists will have to take two topics

courses from outside the humanities).

Select

- two courses from the Energy Economics & Policy group
- two courses from the Energy Production, Extraction & Technology group

OR select

- two courses from one of the above categories
- one course from the other of the above categories
- one Breadth course

Energy Economics & Policy

- ARCH 357 / UP 357: Architecture, Sustainability and the City: Ideas, Forces and People Shaping the Built Environment.
- CEE 307 / ENVIRON 407: Sustainable Cities.
- ECON 370 / ENVIRON 375: Environmental and Resource Economics.
- ECON 437: Energy Economics and Policy.
- EHS 588 / ENVIRON 475 / NRE 475: Environmental Law.
- ENVIRON 312 / POLSCI 380 / PUBPOL 312: Environmental Politics and Policy.
- ENVIRON 375 / ECON 370: Environmental and Resource Economics.
- ENVIRON 407 / CEE 307: Sustainable Cities.
- ENVIRON 475 / NRE 475 / EHS 588: Environmental Law.
- GEOG 472 / UP 572: Transportation and Land-Use Planning.
- INTLSTD 401: International Studies Advanced Seminar, section titled “Politics of Energy in the Developing World.”
- NRE 475 / ENVIRON 475 / EHS 588: Environmental Law.
- POLSCI 380 / ENVIRON 312 / PUBPOL 312: Environmental Politics and Policy.
- POLSCI 389: Topics in Contemporary Political Science, section titled “Energy Politics”.
- POLSCI 497: Undergraduate Seminar in Comparative and Foreign Government, section titled “Politics of Energy in the Developing World.”
- PUBPOL 312 / ENVIRON 312 / POLSCI 380: Environmental Politics and Policy.
- PUBPOL 564: Government Regulation of Industry and Environment.
- UP 357 / ARCH 357: Architecture, Sustainability and the City: Ideas, Forces and People Shaping the Built Environment.
- UP 572 / GEOG 472: Transportation and Land-Use Planning.
- UP 671: Public Policy and Transportation.

Energy Production, Extraction & Technology

- AUTO 533 / MECHENG 433: Advanced Energy Solutions.
- CEE 230: Energy and Environment.
- CEE 565 / ESENG 501: Seminars on Energy Systems, Technology and Policy.
- EARTH 344 / ENVIRON 344: Sustainable and Fossil Energy: Options and Consequences.
- EARTH 380 / ENVIRON 380: Mineral Resources, Economics and the Environment.
- EECS 498: Special Topics, section title “Grid Integration of Alternative Energy Sources”.
- EECS 598: Special Topics, sections titled “Solar Cell Device Physics” or “Resonant Power Converters”.
- ENVIRON 344 / EARTH 344: Sustainable and Fossil Energy: Options and Consequences.
- ENVIRON 380 / EARTH 380: Mineral Resources, Economics and the Environment.

- ENVIRON 404: Cars, Sustainability, and Energy Conversion
- ESENG 501 / CEE 565: Seminars on Energy Systems, Technology and Policy.
- MECHENG 433 / AUTO 533: Advanced Energy Solutions.
- MECHENG 438: Internal Combustion Engines.
- NRE 574 / PUBPOL 519 / RCNSCI 419: Sustainable Energy Systems.
- PHYSICS 406: Statistical and Thermal Physics.
- PUBPOL 519 / RCNSCI 419 / NRE 574: Sustainable Energy Systems.
- RCNSCI 419 / PUBPOL 519 / NRE 574: Sustainable Energy Systems.

Breadth Courses

- AAS 359 / POLSCI 359: African Politics.
- AAS 432: Violent Environments: Oil, Development and the Discourse of Power.
- ANTHRCUL 439: Economic Anthropology and Development.
- AOSS 480 / NRE 480: Climate Change: The Move to Action.
- ARTDES 250: Art, Design and the Environment.
- CEE 265: Sustainable Engineering Principles.
- CHE 230: Material and Energy Balances.
- EARTH 284 / ENVIRON 284: Environmental Geology
- ECON 432: Government Regulation of Industry.
- ECON 445: The Economy of the People’s Republic of China.
- ENGLISH 319: Literature and Social Change, section titled “The Literature of Climate Change”.
- ENGLISH 320: Literature and the Environment, section titled Ecocriticism
- ENVIRON 221 / HISTORY 222: Global Environmental History.
- ENVIRON 224 / HISTORY 224 / PUBPOL 224: Global Nuclear Proliferation.
- ENVIRON 284 / EARTH 284: Environmental Geology
- ENVIRON 304: Literature and the Environment, section titled Ecocriticism.
- ENVIRON 365: International Environmental Policy.
- ENVIRON 412 / PUBPOL 412: Environmental Values in Public Policy.
- ES 445 / STRATEGY 445: Base of the Pyramid: Business Innovation for Solving Society’s Problems.
- GERMAN 326: Intermediate German, section titled “Germany and the Environment”
- HISTORY 222 / ENVIRON 221: Global Environmental History.
- HISTORY 224 / ENVIRON 224 / PUBPOL 224: Global Nuclear Proliferation.
- HISTORY 241: America and Middle Eastern Wars.
- HISTORY 285 / RCNSCI 275: Science, Technology, Medicine, and Society.
- NRE 480 / AOSS 480: Climate Change: The Move to Action.
- POLSCI 359 / AAS 359: African Politics.
- POLSCI 364: Public International Law.
- PUBPOL 224 / HISTORY 224 / ENVIRON 224: Global Nuclear Proliferation.
- PUBPOL 412 / ENVIRON 412: Environmental Values in Public Policy.
- RCNSCI 275 / HISTORY 285: Science, Technology, Medicine, and Society.
- STRATEGY 445 / ES 445: Base of the Pyramid: Business Innovation for Solving Society’s Problems.

English Major

The Department of English Language and Literature offers students opportunities to explore how humans—throughout history—have made sense of our experiences through our creative, resourceful engagements with literature, language, and culture.

In Foundations & Methods courses, English majors develop reading skills that equip them to interpret the complex texts, media, and cultural forms that surround us. Students learn how to parse a memoir or poem, a Supreme Court decision, a Bollywood film, a horror story, a clothing trend, a historical treaty, a social media phenomenon. English majors also hone their capacities as writers capable of communicating ideas through compelling creative, analytic, and digital forms.

In Regions courses, students investigate how literary, linguistic, and cultural forms both shape and are shaped by structures of power and intersecting social identities. Through encounters with literary and cultural traditions from regions around the globe, English majors investigate issues of race and ethnicity, gender and sexuality, nationality and religion, geography and migration, and histories of political, economic, and cultural domination. Students learn about the historical and ongoing ways in which cultural representations both contribute to and challenge inequities, injustices, exclusions, and forms of structural violence. They also learn about the myriad ways in which cultural texts—a medieval romance, a theater performance, an ecofeminist manifesto, a cookbook, a novel about a con artist, a photograph—create beauty and pleasure, or inspire new forms of community and new ways of imagining sustainable futures amid global-scale challenges.

In Time courses, English majors explore continuities and discontinuities in the creation, reception, and circulation of literature and culture. By studying writers, creators, and readers from particular periods, students deepen their awareness of how concepts relevant to the study of English—such as human, environment, nature, culture, language, disability, sex, gender, race, class, law, justice, canon, beauty, and humor—shift over time, reflecting broader political, social, and cultural changes.

Through elective courses, through internships, and through programs that extend learning far beyond the classroom—the New England Literature Program (NELP), the Detroit River Story Lab, the Prison Creative Arts Project (PCAP), the Bear River Writers' Conference, and the Great Lakes Arts, Cultures, and Environments Program (GLACE)—English majors develop a keen awareness of the vital importance of literary and cultural representations. In concrete, embodied forms, students learn how and why words matter.

English majors who choose to participate in the Capstone Program in Research or the Capstone Program in Creative Writing work closely with a faculty advisor and cohort of other writers, engage in several months of sustained research and writing about a topic of their own choosing, and produce thesis-length works that represent both a significant personal achievement and an original contribution to knowledge.

By majoring in English, hundreds of students recognize that patient reading and impassioned writing are not just fulfilling and enjoyable hobbies; they are essential practices for being thoughtful, discerning, active participants in our many communities.

Effective Fall 2022

Exclusions:

Students who elect a major in English may not also elect minors in English or English-Creative Writing.

Advising

Students are encouraged to discuss their academic program and related concerns with an English department advisor. Appointments are scheduled on the English Department's website under academic advising. For questions of immediate concern or general questions about the major, students may speak with the Undergraduate Administrator by phoning 734.764.6330 or by coming to 3187 Angell Hall.

Peer Advising Program

The English Undergraduate Office offers Peer Advising hours where students can come in and ask questions about the various programs, and declare their major while getting a student's perspective on what it's like to be an English major. Check on the website or in the main office for their advising hours.

Grade Policies

Students must complete a course with a grade of C- or better to have it count toward the major requirements.

Prerequisites

ENGLISH 298: Introduction to Literary Studies

Requirements

Minimum Credits: 30

The Department of English Language and Literature offers three main routes toward the major, the General Program, the Creative Writing Program, and Honors.

The General Program

Students in the General Program must successfully complete 30 credits in ENGLISH courses. A maximum of six credits of coursework at the 200 level from the approved list of courses may be counted toward the 30 credits required for the major. 200 level courses cannot be used to satisfy the core requirements of the major listed below. These courses must include at a minimum:

- two courses on literature written primarily before 1830, at least one of which must be on literature written primarily before 1642
- one course on literature taken prior to 1900
- one course in American literature
- one poetry course
- one course designated "Identity and Difference"

The department will offer in any one term a considerable range of courses designed to meet these requirements. A list of which courses meet a given requirement will be available each year in the English Undergraduate Office, online at www.lsa.umich.edu, or from an English department advisor.

Approved 200-level courses:

- ENGLISH 201: Readings in U.S. Literatures: "American" and Other Fictions
- ENGLISH 203: Intro to Rhetoric
- ENGLISH 215: Great Women Writers
- ENGLISH 216: Intro to Disability Studies
- ENGLISH 221: Literature Outside the Classroom
- ENGLISH 230: Intro to Short Story and Novel
- ENGLISH 232: Intro to Visual Culture
- ENGLISH 235: Intro to Autobiography
- ENGLISH 240: Poetry for Non-majors
- ENGLISH 242: Interdisciplinary Studies in English
- ENGLISH 245: Intro to Drama and Theatre
- ENGLISH 250: Intro to Language Studies
- ENGLISH 258: Bible as Literature
- ENGLISH 260: Intro to British Literature
- ENGLISH 267: Shakespeare and his World
- ENGLISH 270: Intro to American Lit
- ENGLISH 274: Intro to Afro-American Lit
- ENGLISH 275: Intro World Lit in English
- ENGLISH 280: Intro to Digital Cultures
- ENGLISH 282: Native American Literature
- ENGLISH 285: Intro to 20th C Lit
- ENGLISH 290: Topics in Lang & Lit
- ENGLISH 292: Themes in Lang & Lit (mini-course)
- ENGLISH 293: Great Works of Lit (mini-course)

Students considering the major in English should elect ENGLISH 298 during the sophomore year. Then, while fulfilling the requirements for the major, they may elect such a pattern of courses as will provide the course of study they find most helpful and satisfying.

The Creative Writing Program

Students interested in the department's offerings in creative writing should begin with ENGLISH 223, an introduction to the reading and writing of modern poetry and prose fiction and to the workshop method of critiquing student writing. ENGLISH 223 is a prerequisite to ENGLISH 323: Advanced Creative Writing in Fiction and 324: Advanced Creative Writing in Poetry, but admission into ENGLISH 323 and 324 is based on a portfolio submission. There is a "permission of instructor" restriction on these courses. At the advanced level students may elect (with the instructor's permission) the advanced fiction workshop (ENGLISH 423) or the advanced poetry workshop (ENGLISH 424).

English majors who wish to specialize in the writing of poetry or prose fiction may, in the winter term of their junior year, apply to the Creative Writing Submajor, which is an optional path to a Bachelor of Arts degree in English. Students in the program take the creative writing workshops described above in sequence, and, in their last term, compile a major manuscript of poetry or prose fiction while working closely with the creative-writing faculty in a tutorial reserved for submajors (ENGLISH 428).

The program is small and highly selective; however, students not enrolled in the submajor may still pursue their interest in creative writing by applying to the appropriate upper-level workshops.

Students must complete a course with a grade of C- or better to have it count toward the requirements for the major.

Constraints

- Majors should note that no more than two courses in expository or creative writing may be counted toward the minimum 30 credits at the upper level required for the major, although students may elect any number of such courses, subject to availability of spaces and to College limits on total elections of courses in any one department.
- No more than six upper-level credits of Independent Study may count towards the major.
- With written prior approval by the undergraduate administrator, courses elected in other departments or programs may on occasion be used as part of a plan for the major.
- Independent study projects cannot be used to meet Department program requirements.

Other Department Policies

Upper-Level Writing Requirement

Majors in English may meet this requirement by taking ENGLISH 325, 398, 425, 428, or 496. A published list of English- approved courses can be found in 3187 Angell Hall. For those in the Honors and Creative Writing Programs, the writing requirement is met within their curriculum, which culminates in the supervised composition of the senior thesis.

Residency

Students must take at least 18 credits of U-M English department classes for the major. The additional 12 credits may be transfer credits, though only one transfer course may count towards the core requirements.

Distribution Policy

No course used to fulfill a major requirement may be used toward the **LSA Distribution Requirement**. In addition, courses in the ENGLISH subject area may not be used toward the Distribution Requirement.

Honors

Honors: The General Program

Joining the English Department's Honors Program means becoming a part of a small, intensely committed group of teachers and students all working toward achieving excellence in the related disciplines of reading, understanding, and writing about texts. Honors courses and the program at large place a premium on discussion, on sustained elaboration of ideas inside and outside the classroom, on conceiving of projects in complex and engaging ways, on learning to do research, and on presenting the fruits of that research in expressive, lucid prose.

Students interested in the Honors Program should apply for admission as soon as possible

after the beginning of their sophomore year. Since students generally have not decided to pursue Honors before they have completed the Sophomore prerequisites for the English major (ENGLISH 298), almost all applicants for admission to Honors come in the winter term of the sophomore year or the fall term of the junior year. Applications are due at the end of the seventh week of each term. Though the program occasionally accepts a few late applicants (i.e., students applying in the winter term of their junior year), admission is more difficult to achieve if students apply late, and students' chances for success in the program are greatest if, before the first term of your senior year, you have taken at least one theory course (preferably ENGLISH 390 or 490) and begun thinking about a possible focus for their thesis. The application consists of a cover sheet; a transcript; a 500-word statement of purpose; and a writing sample. Students must also be maintaining a 3.5 GPA or better in the major.

- Honors students take a course in literary theory, usually ENGLISH 390 or 490. It is recommended that this be done during the student's junior year.
- Honors students take a seminar in research methods (ENGLISH 397). It is recommended that this be done during the winter term of the student's junior year.
- Honors students write a thesis of approximately sixty pages in length during the senior year - a project that is designed to be the single most important, most meaningful piece of work students undertake as English majors at the University. Students write most of their thesis in a required year-long course, "Research and Thesis Writing" (ENGLISH 495/496). Students are guided throughout much of their senior year by a faculty advisor chosen early in that year. The completed thesis is due in mid-March of the senior year.
- During graduation weekend, Honors students will participate in an Honors Symposium, at which students make brief presentations of their theses to interested faculty, friends, and family.

Honors: Creative Writing

Those students who have earned at least a 3.5 GPA in the major may apply for Creative Writing Honors after they have been accepted to the submajor. Honors will be awarded, as warranted, on the basis of the thesis.

Teaching Certificate

English majors in any of the programs above may also apply to be granted a teaching certificate. Students in the General Program must elect, in addition to the pattern of courses there prescribed, a course in composition (normally SWC 300 or 430) and a course in English language (ENGLISH 305, 308, or 406). Honors candidates must elect ENGLISH 305 in addition to the courses required for their program.

The general requirements for a teaching certificate are described elsewhere in this Bulletin, and are available from the School of Education Teacher Education Office, 1228 School of Education Building. A brochure summarizing these requirements is available in the English Office. Application to the certificate program itself must be made through the School of Education. The deadline is January 15 for the following academic term. Please check their website: www.soe.umich.edu/.

English Minor

The Department of English Language and Literature offers students opportunities to explore how humans—throughout history—have made sense of our experiences through our creative, resourceful engagements with literature, language, and culture.

In Foundations & Methods courses, English minors develop reading skills that equip them to interpret the complex texts, media, and cultural forms that surround us. Students learn how to parse a memoir or poem, a Supreme Court decision, a Bollywood film, a horror story, a clothing trend, a historical treaty, a social media phenomenon. English minors also hone their capacities as writers capable of communicating ideas through compelling creative, analytic, and digital forms.

In Regions courses, students investigate how literary, linguistic, and cultural forms both shape and are shaped by structures of power and intersecting social identities. Through encounters with literary and cultural traditions from regions around the globe, English minors investigate issues of race and ethnicity, gender and sexuality, nationality and religion, geography and migration, and histories of political, economic, and cultural domination. Students learn about the historical and ongoing ways in which cultural representations both contribute to and challenge inequities, injustices, exclusions, and forms of structural violence. They also learn about the myriad ways in which cultural texts—a medieval romance, a theater performance, an ecofeminist manifesto, a cookbook, a novel about a con artist, a photograph—create beauty and pleasure, or inspire new forms of community and new ways of imagining sustainable futures amid global-scale challenges.

In Time courses, English minors explore continuities and discontinuities in the creation, reception, and circulation of literature and culture. By studying writers, creators, and readers from particular periods, students deepen their awareness of how concepts relevant to the study of English—such as human, environment, nature, culture, language, disability, sex, gender, race, class, law, justice, canon, beauty, and humor—shift over time, reflecting broader political, social, and cultural changes.

Through elective courses, English minors develop a keen awareness of the vital importance of literary and cultural representations. In concrete forms, students learn how and why words matter.

By minoring in English, students recognize that patient reading and impassioned writing are not just fulfilling and enjoyable hobbies; they are essential practices for being thoughtful, discerning, active participants in our many communities.

Effective Fall 2018

Exclusions:

Students who have declared an English Minor cannot also pursue an English Major or a Creative Writing Minor.

Advising

Student seeking to make an advising appointment can schedule an appointment through the following link, <https://webapps.lsa.umich.edu/english/undergraduate/advising/default.asp>

Grade Policies

All courses taken in the minor must be C- or better.

The minor GPA will be calculated using all English courses taken toward the minor (including the pre-requisite course, 298).

Students must earn an overall GPA of at least 2.0 in courses taken in the minor.

Prerequisites

English 298: Introduction to Literary Studies (minimum grade of C-)

Requirements

Minimum Credits: 15

English minors must elect a total of 15 credits of coursework including:

1. Upper-Level Core Requirements

Two of the core requirements listed below using two separate courses (6 credits):

- Pre-1642
- Pre-1830
- Pre-1900
- American Lit
- Identity/Difference
- Poetry

Courses that may be used to meet these core requirements can be found on the English Department website

at <http://www.lsa.umich.edu/english/undergraduate/courses/conReqs.asp>.

2. Elective courses

An additional nine credits which can include:

- a. English literature courses at the 300/400 level
- b. Two elective courses (6 credits) may be at the 200-level. Eligible courses are:
 - ENGLISH 201: Readings in U.S. Literatures: "American" and Other Fictions
 - ENGLISH 203: Intro to Rhetoric
 - ENGLISH 215: Great Women Writers
 - ENGLISH 216: Intro to Disability Studies
 - ENGLISH 221: Literature Outside the Classroom
 - ENGLISH 230: Intro to Short Story and Novel
 - ENGLISH 232: Intro to Visual Cultures
 - ENGLISH 235: Intro to Autobiography
 - ENGLISH 240: Poetry for Non-majors
 - ENGLISH 242: Interdisciplinary Studies in English
 - ENGLISH 245: Intro to Drama and Theatre
 - ENGLISH 250: Intro to Language Studies
 - ENGLISH 258: Bible as Literature
 - ENGLISH 260: Intro to British Literature
 - ENGLISH 267: Shakespeare and his World
 - ENGLISH 270: Intro to American Lit
 - ENGLISH 274: Intro to Afro-American Lit
 - ENGLISH 275: Intro World Lit in English
 - ENGLISH 280: Intro to Digital Cultures

- ENGLISH 282: Native American Literature
- ENGLISH 285: Intro to 20th C Lit
- ENGLISH 290: Topics in Lang & Lit
- ENGLISH 292: Themes in Lang & Lit (mini-course)
- ENGLISH 293: Great Works of Lit (mini-course)

c. One course may be a creative or expository writing course. Creative/expository writing courses include ENGLISH 322 (*only if elected FA21 or later*), 323, 324, 325, 327, 328, 344 (*only if elected FA21 or later*), 345 (*only if elected FA 21 or later*), 423, 424, 425, 427, WRITING 300 or any transferred writing course.

Constraints

1 course (3 credits) from transfer credit or study abroad may be used toward elective minor credits.

Entrepreneurship Minor

Having completed the minor, students should expect to:

- A. Encompass a creative vision of the social, cultural, and economic landscape of the present and future
- B. Have an ability to identify problems as opportunities and to develop creative and innovative solutions through invention or translation across categorical boundaries
- C. Possess a skill in developing and coordinating a structure that will produce an audience or market for the solutions
- D. Have confidence to take risks in order to function as an active agent in one's own life and as a citizen of the world

15 credits are required to fulfill this minor. All minor coursework must be taken on a graded basis (unless the class is mandatory pass/fail or credit/no credit) and students must maintain a minimum cumulative GPA of 2.00 or higher within the minor coursework.

Core

3 credits of fundamentals that establish a foundation in creativity, innovation, and business approaches:

- ES 212/UC 214 (3 credits): Entrepreneurial Business Basics (for all non-BBA students)
- ES 250 (only for BBA)

Electives

A minimum of 6 credits from an approved list of electives. This presents students with an opportunity to explore disciplinary areas in more academic depth related to their entrepreneurial interests.

Required Practicum

3 credits of hands-on work that sees you and your team take an idea or product from initial scope to launch:

- ALA/Psych 223 Entrepreneurial Creativity

Practicum

The final part of the requirement for the Entrepreneurship Minor is a minimum of 3 credits of an immersive, experiential learning opportunity. The key to this practical experience is a strong focus on 1) the identification and opportunity recognition and also 2) the implementation and execution of the idea for a relatively large external audience.

The Environment Major

The Program in the Environment is an undergraduate degree program housed in the College of Literature, Science and the Arts (LSA). This collaborative venture includes courses taught by faculty in Literature, Science, and the Arts, School of Natural Resources and Environment, College of Engineering, Ford School of Public Policy, Stamps School of Art and Design, Taubman College of Architecture and Urban Planning and School of Public Health. The resulting curriculum presents an expanded range of opportunities for students interested in environmental careers.

The Program in the Environment trains students to ensure basic scientific literacy, familiarity with advanced problem-solving techniques, and an ability to integrate scientific and social scientific approaches in addressing environmental problems. The program's interdisciplinary approach requires coursework in the natural sciences, social sciences and the humanities. It combines breadth, through exposing students to a variety of disciplines and methodological skills, and depth, through requiring a sequence of courses in one of three specialization areas: Environmental Sciences, Environmental Social Sciences, or Culture and Environment. Majors are required to spend time off campus in an organized field study or a supervised internship.

Students who complete the major in the Environment will earn either a B.S. or an A.B. degree, depending upon their course of study (the B.S. requires 60 credits of courses in science and mathematics). The degree is awarded collaboratively by LSA and SNRE and bears the names of both schools.

The major in Environment is intended to ensure scientific literacy, familiarity with advanced problem-solving techniques, and an ability to integrate scientific and social scientific approaches in addressing environmental problems. It serves students interested in environmental literacy as well as those interested in a wide range of career tracks related to environmental issues.

Effective Fall 2017

Advising

Students interested in declaring either a major or a minor must attend an information session. Information sessions are held throughout the Fall and Winter terms. Appointments may be scheduled with Program advisors on-line at: [/lsa.umich.edu/pite/majors/advising.html](http://lsa.umich.edu/pite/majors/advising.html)

Prerequisites

Prerequisites need not be completed prior to declaring an Environment major. To ensure a common background and understanding of disciplines relevant to environmental study, students take all of the following (many of these courses also satisfy LSA area distribution):

1. **One Introductory Interdisciplinary Course** (one of the following):
 - ANTHRARC 180: First-Year Seminar in Anthropological Archaeology, *section titled "Food at the University of Michigan" (only if taken WN17 or later)*
 - ANTHRBIO / ENVIRON 167: Evolution, Environment, and Global Health (*only if taken FA18 or later*)
 - BIOLOGY 109: Ecological Knowledge and Environmental Problem Solving (*only if taken FA16 or later*)
 - EARTH 144: Climate Change in the Age of Humans (*only if taken FA16 or later*)
 - EARTH 158: Environmental Impact of Energy Systems: What are the Risks? (*only if taken FA16 or later*)
 - EARTH / GEOG 201 / ENVIRON 209: Introduction Physical Geography (*only if taken FA16 or later*)
 - EARTH 219 / ENVIRON 229: Introduction to Environmental Science (*only if taken FA18 or later*)
 - ENVIRON / BIOLOGY 101: Food, Energy, and Environmental Justice
 - ENVIRON 110 / AOSS 171 / BIOLOGY 110 / EARTH / ENSCEN 171 / RCNSCI 110: Introduction to Global Change: The Science Behind Sustainability
 - ENVIRON 111 / AOSS / EARTH / ENSCEN 172 / GEOG 111: Global Change: The Sustainability Challenge
 - ENVIRON 139: First-Year Seminar in the Environment
 - ENVIRON 201 / RCNSCI 202: Ecological Issues
 - ENVIRON 270: Our Common Future
 - CEE 230: Thermodynamics and the Environment
 - CEE 265: Sustainable Engineering Principles
2. **One Introductory Biology Course:**
 - BIOLOGY 171: Introductory Biology: Ecology and Evolution; or
 - BIOLOGY 195: Introductory Biology (AP)
3. **One Introductory Geology Course:**
 - EARTH 116: Introductory Geology in the Field
 - EARTH 118: Introductory Geology Laboratory **AND** EARTH 119: Introductory Geology Lectures; or
 - EARTH / ENVIRON 120: Geology of National Parks and Monuments
 - EARTH / ENVIRON 202: Introduction to Earth and Environmental Sciences in the Rockies
 - EARTH 296: Topics in the Earth and Environmental Sciences, (*section titled "Earth and Environmental Science Around Us" (only if elected SU20 or later)*)
4. **One Environmental Social Science Course:**
 - ECON 101: Principles of Economics I (*only if taken FA17 or later*)
 - ENVIRON 207: Sustainability and Society (*only if taken FA17 or later*)
 - ENVIRON / ORGSTUDY 208: Business and the Natural Environment
 - ENVIRON / RCSSCI 211: Social Sciences and Environmental Problems
 - ENVIRON 222: Introduction to Environmental Justice (*only if taken FA17 or later*)
 - ENVIRON 235: Economics of Natural Resources and Environment
 - ENVIRON 290: Food: The Ecology, Economics, and Ethics of Growing and Eating
 - ENVIRON / HISTORY 236: Environment and History in Preindustrial Europe (*only if taken FA17 or later*)

- ENVIRON / HISTORY 237: Global Environmental History (*only if taken FA17 or later*)
- HISTORY 232: Interdisciplinary Topics in History, *section titled "Histories of Global Health"* (*only if taken FA17 or later*)

Requirements

Minimum Credits: 32

These courses expand students' knowledge of environmental problems and solutions by exposing them to a wide range of natural science, social science, and humanistic disciplines. Students select one course at the 200 level or above in each of the following categories.

1. **General Ecology** (one of the following):
 - BIOLOGY/ENVIRON 281: General Ecology **AND** BIOLOGY / EEB 372: General Ecology Laboratory; or
 - BIOLOGY/ENVIRON 282 **AND** ENVIRON/EEB 373: General Ecology at UM Biological Station (or ENVIRON/EEB 381 prior to SP22); or
 - EARTH / ENVIRON 450: Ecosystem Science in the Rockies at Camp Davis, Wyoming
2. **Analytcs** (one of the following):
 - STATS 250: Introduction to Statistics and Data Analysis
 - STATS 280: Honors Introduction to Statistics and Data Analysis
 - SOC 210: Elementary Statistics
3. **Culture and Environment** choose one from approved list or in consultation with a department advisor:
 - AAS 409, 432
 - AMCULT 284, 311 *section titled, "Green Indigeneity", 373*
 - ANTHRBIO 364, 365, 373
 - ANTHRCUL 256, 328, 408, 439, 440
 - ARCH 209 *section titled "Experiencing Architecture", 212, 213, 357, 423*
 - ARTDES 250
 - ASIAN 257, 258
 - CLARCH 222, 382, 350 *section titled "The Art and Life in Roman Villas"*
 - CLCIV 382
 - EARTH 238
 - ENGLISH 290 *section titled "American Environments: History, Thinking, Reps", 317 section titled "Greek Indigenety", 319 section titled "Literature of Climate Change", 328, 346 section titled "Embodiment / Environment / Community"*
 - ENVIRON 221, 223, 238, 240, 244, 256, 270, 284, 301, 304, 320, 350, 370, 376, 377, 464
 - HISTART 212, 213, 222, 243, 301, 394 *section titled "The Art and Life in Roman Villas"*
 - HISTORY 222, 223, 238, 284, 285, 373
 - ITALIAN 310
 - MOVESCI 241
 - PHIL 224, 240, 355, 356, 359, 361, 366, 376
 - RCHUMS 334 *section titled "Experiencing Architecture"*
 - RCIDIV 305
 - STRATEGY 411, 445
 - UC 254 *section titled "Much Depends on Dinner"*

- UP 357, 423
 - WGS 344 (WOMENSTD 344) *section titled "Embodiment / Environment / Community"*
4. **Natural and Earth Systems Science:**
- choose one 200 level or above Natural Science course or chosen in consultation with the department advisor.
(NOTE: ENVIRON 201 does NOT count)
5. **Social Science** choose two - one must be 300 level or above:
- ARCH 423
 - ANTHRCUL 256
 - CEE 307
 - COMM 413
 - ECON 330, 360, 370
 - EDCURINS 382
 - EEB 316, 318
 - EHS 588
 - ENVIRON 203, 207, 208, 211, 222, 223, 237, 242, 256, 270, 290, 302, 306, 308, 312, 313, 316, 318, 320, 321, 335, 345, 350, 356, 367, 370, 375, 382, 390, 391, 405, 407, 408, 412, 413, 448, 449, 462, 475, 490
 - HISTORY 223, 237
 - NRE 449, 475
 - ORGSTUDY 203, 208
 - POLSCI 331, 380, 394
 - PSYCH 384, 385
 - PUBPOL 312, 412
 - RCIDIV 316, 318, 390
 - RCSSCI 211, 222
 - SOC 222, 380
 - UP 423
6. **Senior Capstone:**
- One course chosen in consultation with the department advisor.
7. **Practical Experience:**
- The experience can be satisfied by an internship or a residential field course that is taken for 3 credits or more.
8. **Specialization:**
- To gain a deeper understanding of applicable skills in one discipline of environmental study, students take three related courses at the 300-level or above, approved by the specialization committee, in one of the following areas: Environmental Science, Environmental Social Science, or Culture and the Environment.

Distribution Policy

No course used to fulfill a major requirement may be used toward the **LSA Distribution Requirement**. In addition, courses in the ENVIRON subject area may not be used toward the Distribution Requirement.

Honors

The Honors Program is open to all students who have achieved a cumulative grade point

average of 3.50 or better. These students are automatically admitted into the Honors Program. (However, completion of the Honors Program requires the student to find a faculty advisor for their research.) Other students may request admission to the Honors Program by completing an application form available from the Program in the Environment office. **The application and faculty recommendation (if needed) must be submitted by December 1 of the junior year.** In order to remain in Honors and also to graduate with any level of Honors, all Honors student must have a cumulative GPA of at least 3.4.

Honors Course Sequence

- **Junior Year, Fall Term:** Students hoping to pursue the Honors Program meet with the advisor(s) and instructor of the Junior Honors Seminar (ENVIRON 399). Students planning to study abroad will not be able to during the Winter semester of their Junior year.
- **Junior Year, Winter Term:** Junior Honors Seminar (ENVIRON 399). The goals of this 3-credit course are to develop research skills, identify a faculty advisor who will provide guidance and encouragement, and prepare the proposal for the thesis project. Students **MAY NOT** study abroad during this semester. ENV 399 will not be waived for study abroad because of the detailed instruction and information the student must gain from this course.
- **Senior Year, Fall and Winter Terms:** Seniors will register for independent study credits (ENVIRON 499) with their advisor during their senior year (6 credits over the Fall and Winter terms). The primary goal of the independent study is to carry out the Honors thesis research. In addition to regular meetings with their advisor, students will also meet monthly with the other Senior Honors students in the winter term. These sessions will be facilitated by the instructor(s) of ENVIRON 399 and provide an opportunity to talk about thesis progress and obstacles, discuss how to present findings in the written document and orally, and other concerns related to the trials and tribulations of getting the thesis done on time.
- **Oral Presentation:** A public oral presentation of a student's thesis research will be arranged by the Program in the Environment staff in consultation with the instructors of ENVIRON 399 and the faculty advisors for ENVIRON 499.

Teacher Certification

For information about teaching certificates, please contact the Program in the Environment.

The Environment Minor

The goals of this minor are to enhance the environmental literacy of undergraduates by exposing them to various disciplinary approaches to environmental issues and problems and by providing opportunities for field-based experience and for the acquisition of analytical skills useful in solving environmental problems.

The intended audience is students seeking some measure of environmental literacy or preparing themselves for careers with an environmental dimension.

Effective Fall 2015

Exclusions:

A minor in the Environment is not open to students concentrating in the Environment, to students in the School of Natural Resources and Environment, nor to those pursuing a minor in Global Change or minor in Sustainability.

Students can either pursue an Academic Minor in the Environment or the Academic Minor in Sustainability, but not both.

Advising

Students wishing to pursue a minor in the Program in the Environment must develop a specific plan for its completion in consultation with the program's academic advisor.

Students interested in declaring either a major or a minor must attend an information session. Information sessions are held throughout the Fall and Winter terms. Students wishing to pursue a minor in the Program in the Environment must develop a specific plan for its completion in consultation with the program's academic advisor. Appointments may be scheduled with Program advisors on-line at: [/lsa.umich.edu/pite/majors/advising.html](http://lsa.umich.edu/pite/majors/advising.html)

Prerequisites

None for the Academic Minor *per se*, although individual courses elected to meet the requirements of the Academic Minor may have course prerequisites.

Requirements**Minimum Credits: 17**

At least 17 credits of courses, to be elected from five categories as stated (at least two of the required courses must be at the 300-level or above):

- A. **Introductory interdisciplinary courses.** One course chosen from:
 - ENVIRON 110 / AOSS 171 / BIOLOGY 110 / EARTH / ENSCEN 171 / RCNSCI 110: Introduction to Global Change: The Science Behind Sustainability
 - ENVIRON 111 / AOSS / EARTH / ENSCEN / GEOG 111: Global Change: The Sustainability Challenge
 - ENVIRON 201 / RCNSCI 202: Ecological Issues
 - ENVIRON 270: Our Common Future
 - CEE 260: Environmental Principles
- B. **Environmental Natural Science.** One course chosen from the list of Environmental Natural Science courses, above.
- C. **Environmental Social Science.** One course chosen from the list of Environmental Social Science courses, below.
- D. **Culture and Environment.** One course chosen from the list of Culture and Environment courses, below.
- E. **Analytics or Field Experience** (one course):
 1. **Field Experience.** The field experience requirement may be satisfied in two ways: by a field course at the UM Biological Station, Camp Davis, or other approved field location; or by an approved off-campus internship that results in academic credit.
 2. **Analytics.** The analytics requirement may be satisfied by electing STATS 250 or SOC 210 or equivalent (STATS 265 or IOE 265).

Environmental Social Science Courses for the academic minor.

These courses do not necessarily satisfy the SS distribution requirement.

- ARCH 423
- ANTHRCUL 256
- CEE 307
- COMM 413
- ECON 330, 360, 370
- EDCURINS 382
- EHS 588
- ENVIRON 203, 207, 208, 211, (221 prior to Fall 2016), 222, 223, 237, 242, 256, 270, 290, 302, 306, 308, 312, 313, 316, 318, 320, 321, 335, 345, 350, 356, 360, 361, 365, 367, 370, 375, 382, 390, 391, 405, 407, 408, 412, 413, 448, 449, 462, 475, 490
- HISTORY (222 prior to Fall 2016), 223, 237
- NRE 449, 475
- ORGSTUDY 203, 208
- POLSCI 331, 380, 394
- PSYCH 384, 385
- PUBPOL 312, 412
- RCIDIV 316, 318, 390
- RCSSCI 221, 222
- SOC 222, 330
- UP 423

Culture and Environment Courses for the academic minor. (Fall 2014 - Current | Previous)

- AAS 409, 432
- AES 241
- AMCULT 284, 311 *section titled "Green Indigeneity"*, 373
- ANTHRIBIO 364, 365, 373
- ANTHRCUL 256, 328, 408, 439, 440
- ARCH 209 *section titled "Experiencing Architecture"*, 212, 213, 357, 423
- ARTDES 250
- ASIAN 257, 258
- CLARCH 222, 382, 350 *section titled "The Art and Life in Roman Villas"*
- CLCIV 382
- EARTH 238
- ENGLISH 290 *section titled "American Environments: History, Thinking, Reps"*, 317 *section titled "Green Indigeneity"*, 319 *section titled "Literature of Climate Change"*, 328, 346 *section titled "Embodiment / Environment /Community"*
- ENVIRON 221, 223, 238, 240, 244, 256, 270, 284, 301, 304, 320, 350, 370, 376, 377, 464
- HISTART 212, 213, 222, 243, 301, 394 *section titled "The Art and Life in Roman Villas"*
- HISTORY 222, 223, 238, 284, 285, 373
- ITALIAN 310
- MOVESCI 241
- PHIL 224, 240, 355, 356, 359, 361, 366, 376
- RCHUMS 334 *section titled "Experiencing Architecture"*
- RCIDIV 305
- STRATEGY 411, 445
- UC 254 *section titled "Much Depends on Dinner"*

- UP 357, 423
- WGS 344 (WOMENSTD 344) *section titled “Embodiment / Environment / Community”*

Environmental Geology Minor

The Environmental Geology minor is designed to give students a broad introduction to processes shaping the Earth's surface, its physical and biochemical environment, and potential response to anthropogenic influences. Because society and the Earth's surface environment are intimately linked, students with interests in pre-law or majors such as business, economics, history, and English may find the minor in Environmental Geology an attractive complement to their training. As well, students concentrating in other areas of the Natural Sciences may find the minor in Environmental Geology a way to diversify their background and apply fundamental scientific principles in an interdisciplinary way. Note that by LSA rules, only one course may be elected in common to a minor and a major.

Our innovative and flexible majors provide an interesting path for students to follow on their way to an LSA degree. From our field camp at Camp Davis in Wyoming, to lab work on campus, Michigan students have an opportunity to explore the geological sciences in exciting ways.

The Department of Earth and Environmental Sciences offers:

- an ***Earth and Environmental Sciences Major*** and an ***Honors Plan***
- a ***Teacher's Certificate Program***, for prospective science teachers who are candidates for a secondary teaching certificate in earth science and general science; and,
- Academic minors in ***Earth Sciences***, ***Environmental Geology***, ***Geology***, ***Oceanography***, and ***Paleontology***.

Effective Winter 2021

Exclusions:

Not open to students electing the minor in Earth Sciences.

Advising

A plan for the major in the Department of Earth and Environmental Sciences is developed in consultation with a department advisor. A proposed plan must be approved in its entirety by the appropriate advisor prior to registration for the first term of major. Thereafter, progress through the plan and future elections must be reviewed, and approved in advance, whenever a change is proposed and in any case no less frequently than at the beginning of each new academic year of residence. Certification must also be obtained from an advisor, on an official LSA Major Release Form, immediately prior to submission of the application for the degree.

Information about appointments with department advisors is available on the web at: **lsa.umich.edu/earth/undergraduate-students.html**

Students wishing to pursue a minor in the department must develop a specific plan for its completion in consultation with the department's designated advisor. Appointments are scheduled online **lsa.umich.edu/earth/undergraduate-students.html**

Prerequisites

None.

Requirements

Minimum Credits: 15

1. **One introductory Geology course** must be taken from one of the following two groups:
 - *Group 1.* Courses with laboratory: EARTH 116, 118&119, 120, 201, 202 (as of Fall 2017).
 - *Group 2.* Courses without laboratory: EARTH 119, 135 (prior to Fall 2017), 205&206.
2. **Core courses:** EARTH 218, 219 and 380 are required.
3. **Elective courses:** EARTH 325, 442, 444, 450, 477, 478, or permission of advisor.

Evolutionary Anthropology Major

Evolutionary Anthropology includes courses from the Department of Anthropology; the Departments of Earth and Environmental Sciences; Ecology and Evolutionary Biology; Molecular, Cellular and Developmental Biology; and Psychology; and the School of Natural Resources and the Environment. It combines anthropological and biological perspectives in the study of humans and related species. It is particularly appropriate for students planning to continue in the health sciences and for students interested in "whole organism" biology and ecology. Thus, many Evolutionary Anthropology majors are training for medical school, while others are planning to pursue careers in natural resource management, conservation, animal behavior, and other fields. Because evolutionary biology forms its primary theoretical basis, the major does not require courses in other sub-disciplines of anthropology. Students who are interested in biological anthropology and seek broader training in anthropological archaeology, linguistic anthropology, and sociocultural anthropology may pursue a degree as an Anthropology major. Students should contact the undergraduate advisor in the Department of Anthropology for further information.

Effective Fall 2014

Exclusions:

Students who elect a major in Evolutionary Anthropology may not elect a major in Biology, Health, & Society.

Advising

The department offers undergraduate majors for a bachelor's degree in Anthropology and Evolutionary Anthropology: minors are offered in Medical Anthropology, Biological Anthropology, and Anthropology (with tracks in Sociocultural Anthropology, Linguistic Anthropology, and Archaeological Anthropology).

All anthropology faculty members are available for informal discussion with students during scheduled office hours (check the Department office for times).

Department advisors are available to explain program objectives and requirements and to help with the planning of your program.

Students wishing to pursue a minor in the Department of Anthropology should contact the undergraduate advisor with any questions.

Appointments are scheduled in the Department office or online at: www.lsa.umich.edu/anthro/undergraduates/advising

Prerequisites

- ANTHRBIO 201
- BIOLOGY 171, 172, 173; or BIOLOGY 195 and 173

Requirements

Minimum Credits: 32

At least 32 credits at the 200-level and above, distributed as follows:

A. **Anthropology.** A minimum of five courses, with at least one course from each of the four groups below. Two courses must be at the 400-level or above. Courses listed in more than one group below cannot be counted twice:*

1. ***Paleoanthropology and morphology:***

ANTHRBIO 351, 360, 365, 366, 465, 466, 474, 475, 476, 477, 479, ANTHRBI
471- *sections titled "Miocene Hominoid Palebiology" or "Paleocology and Paleodietary Reconstructions"*

2. ***Ecology and behavior:***

ANTHRBIO 342, 361, 362, 368, 373, 461, 463, 467, 468, 472, 478, ANTHRBI
668 - *section titled "Current Issues in Primate Behavior"*

3. ***Human adaptation:***

ANTHRBIO 364, 366, 373, 462, 471 - *section titled "Skeletal Biology", 472*

4. ***Evolution and genetics:***

ANTHRBIO 342, 360, 361, 363, 365, 450, 452, 467, 475, 476, 479, ANTHRBI
471 - *section titled "Molecular Anthropology"*

*Courses taken as ANTHRBI 469: Topics in Biological Anthropology, or graduate-level topics courses can be counted in the appropriate group.

B. **Biology.** A minimum of three courses representing both of the groups below:

1. ***Molecular, Cellular, and Developmental Biology:***

- ANAT 403, 541
- BIOLCHEM 415
- BIOLOGY 205, 207, 222, 225, 305
- CHEM 351
- EEB 341, 490
- MCDB 308, 310, 352, 404, 405, 408, 417, 418, 422, 427, 462
- PHYSIOL 201, 502, 541
- PSYCH 337 (438), 532

2. ***Ecology, Evolution, and Behavior:***

- BIOLOGY 252, 256, 281, 288
- CMLXSYS 430
- EARTH 418/419, 437, 438
- EEB 315, 381, 390, 404, 412, 424, 430, 451, 470, 472, 476, 492
- ENVIRON 281, 315, 415, 451, 476
- NRE 415, 451, 476
- PSYCH 335

C. Remaining credits may be selected from other biological anthropology or biology courses within the major, or from relevant courses in other departments approved by the program

advisors.

Constraints

A maximum of 6 credits of independent research can be counted toward the major.

Other Department Policies

Evolutionary Anthropology majors may NOT use any ANTHR BIO courses toward the College Area Distribution requirement, but MAY use introductory Biology courses.

Residency

At least 20 credits must be completed in residence at the University of Michigan.

Distribution Policy

No course used to fulfill a major requirement may be used toward the **LSA Distribution Requirement**. In addition, courses in the ANTHR BIO subject area may not be used toward the Distribution Requirement.

Honors

The **Honors Plan** in Evolutionary Anthropology is individually arranged with the department advisor and requires a senior thesis. Recommendations for degrees with Honors are made by the department advisor after consultation with the Honors advisor in biological anthropology.

Film, Television, and Media Major

The curriculum in Film, Television, and Media provides an integrated program of courses in the history, aesthetics, theory, and techniques of film and moving image electronic media (television, single-camera video, digital). Emphasis is placed on a liberal arts sequence that provides students with a solid foundation for understanding how film and electronic-based visual media arise out of varied cultural, historical, social, and technological circumstances. Two prerequisite courses prepare them for advanced study in the history and aesthetics of moving image media and for production courses. An introductory course in production gives students hands-on experience in film, video, and television. Courses in film history prepare students for electives in the films of specific cultures, nations, and time periods, as well as in the study of film style illuminated by the work of individual artists and in various genres. Television history allows them to assess trends in the social, technological, and formal development of the most influential medium of the second half of the twentieth century. Required courses in theory and criticism examine the methods that have been used to study film, television, and digital media.

Production core courses are designed to help majors work creatively in film and moving image electronic media (television, single-camera video, digital) as they become familiar, through electives, with interdisciplinary, humanistic perspectives on how moving image technology has been used in different cultures as a medium of communication and artistic expression, and how various kinds of institutional practice have characterized its use. The film-video curriculum is designed to prepare students for more advanced work in film writing and criticism, in creative film, video-making, and studio television work, and for advanced study in graduate programs in moving image media.

Effective Fall 2018

Advising

Students who may be interested in a major in Film, Television, and Media are encouraged to consult with a department advisor. Appointments are scheduled online at: https://webapps.lsa.umich.edu/AdvAppts/AA_StuSelfSvc1.aspx?ctgy=SAC

Grade Policies

The prerequisite for the FTVM major may be taken for a grade or may be taken P/F. A minimum grade of C– or better must be achieved in any course taken to satisfy the FTVM Major requirements.

Prerequisites

FTVM / RCHUMS 150 (FTVM / RCHUMS 236) - Introduction to Film, Television, and Media completed with a minimum grade of C-.

Students will apply for entry to the major after having completed the prerequisite. In accord with LSA policies, students who do not meet the minimum grade requirement but still hope to declare the Film, Television, and Media major may retake the prerequisite course. If they meet the criteria above with the new grade they earn in the re-taken course, they may declare Film, Television, and Media as their major.

Requirements

Minimum Credits: 32

1. Core Required Courses (25 credits).

A. Two history courses:

FTVM 352 - Film History: Origins to the French New Wave, and one additional history course selected from among the following:

- FTVM 353 - Film History: Post New Wave
- FTVM 354 - New Media History
- FTVM 355 - Television History.

B. Two theory courses:

FTVM 272-Classical Film Theory, and one additional history course selected from among the following:

- FTVM 372 - Contemporary Film Theory
- FTVM 375 - Television Theory and Criticism
- FTVM 376 - New Media Theory
- FTVM 461 - Explorations in Feminist Film Theory

C. Introduction to production course: FTVM 290- Introduction to Media Production.

D. Two production or writing courses selected from the following:

- FTVM 300 - Movie/Serial Television Production I
- FTVM 301 - Documentary I
- FTVM 302 - Multi-Camera Television Production
- FTVM 304 - Topics in Media Production I
- FTVM 305 - The Experimental Screen

- FTVM 306 - Animation and Digital Media Practices I
- FTVM 309 - Shorts from Short Stories
- FTVM 310 - Screenwriting I: The Feature Script
- FTVM 311 - Writing for Television I: The Spec Script
- FTVM 317 - WOLV TV
- FTVM 391 - Editing Theory & Practice
- FTVM 392 - Cinematography
- FTVM 393 - Screendance (*only if elected FA 20 or later*)
- FTVM 394 - *Topics in Digital Media Production (only if elected WN21 or later)*

E. *One studies course selected from among the following in National, Regional, or Transnational Cinema, or in a 300 or 400-level Television or Digital Media course:*

- FTVM 250 / JUDAIC 250 / MIDEAST 280 - Jewish Film: Race, Ethnicity, and Nationality
- FTVM / SLAVIC / RCHUMS 313 - Russian and Ukrainian Cinema
- FTVM / POLISH 314 - Polish Cinema
- FTVM / ITALIAN 316 - Screening Italian-Americans
- FTVM 321 / MIDEAST 331 - Iranian Cinema: Re/Presenting a Nation (*only if elected FA21 or later*)
- FTVM 332 / GERMAN 330 - German Cinema
- FTVM / GERMAN 333 - Fascist Cinema
- FTVM / AMCULT / COMM 334 - Race, Gender, Sexuality and U.S. Culture in Video Games
- FTVM / ASIAN 341 - Bollywood and Beyond: An Introduction to Popular Indian Cinema
- FTVM / GERMAN / AMCULT 346 - Media Matter: From Print to Screen Culture
- FTVM 358 - Italian Film: History, Art, Entertainment
- FTVM 365 - Race and Ethnicity in Contemporary American Television
- FTVM 368 - Topics in Digital Media Studies
- FTVM / HISTART / HISTORY / JUDAIC 379 - Jewish Photographers Picture the Modern World (*only if elected WN20 or later*)
- FTVM / AMCULT / LATINOAM 380 - Studies in Transnational Media
- FTVM / AMCULT / LATINOAM 381 - Latinas/Latinos and the Media
- FTVM / AAS 440 - African Cinema
- FTVM 441 - National Screens
- FTVM / AAS 442 - Third World Cinema
- FTVM / ASIAN 458 - Film Culture in Korea
- FTVM / AAS 470 - Cultural Cinema
- FTVM 485 - The Global Screen
- ITALIAN 358 - Italian Cinema
- or a similar course pre-approved by the advisor.

2. **Required Electives:** 7 credits of FTVM coursework at the 300 or 400 level. One of these courses must be a 3-credit studies course (see lists below).

Production Courses

- FTVM 300 - Movie/Serial Television Production I
- FTVM 301 - Documentary I
- FTVM 302 - Multi-Camera Television Production
- FTVM 303 - Mini Course in Media Production II

- FTVM 304 - Topics in Media Production I
- FTVM 305 - The Experimental Screen
- FTVM 306 - Animation and Digital Media Practices I
- FTVM 309 - Shorts from Short Stories
- FTVM 310 - Screenwriting I: The Feature Script
- FTVM 311 - Writing for Television I: The Spec Script
- FTVM 317 - WOLV TV
- FTVM 391 - Editing Theory & Practice
- FTVM 392 - Cinematography
- FTVM 394 - Topics in Digital Media Production (*only if elected WN21 or later*)
- FTVM 400 - Movie/Serial Television Production II
- FTVM 401 - Documentary II
- FTVM 402 - Topics in Television Production
- FTVM 403 - Television Sketch Comedy
- FTVM 404 - Topics in Media Production II
- FTVM 405 - Screendance
- FTVM 406 - Animation and Digital Media Practices II
- FTVM 410 - Screenwriting II: The Rewrite
- FTVM 411 - Writing for Television II: Pilots
- FTVM 421 - TV Pilots
- FTVM 423 - Practicum for the Screenwriter
- FTVM 427 - Screenwriting III

Studies Courses

- FTVM / SLAVIC 313 - Russian and Ukrainian Cinema
- FTVM / POLISH 314 - Polish Cinema
- FTVM / CZECH 315 - Czech Cinema
- FTVM / ITALIAN 316 - Screening Italian-Americans
- FTVM 320 - Documentary Film
- FTVM 325 - New Line and New Hollywood Cinema
- FTVM / ENGLISH 330 - Major Director (rotating topics)
- FTVM / ENGLISH 331 - Film Genres and Types (rotating topics)
- FTVM 332 / GERMAN 330 - German Cinema
- FTVM 333 - Fascist Cinema
- FTVM / AMCULT 334 - Race, Gender, Sexuality, and U.S. Culture in Video Games
- FTVM 340 - Writing Film Criticism
- FTVM / ASIAN 341 - Intro to India Cinema
- FTVM / AMCULT / GERMAN 346 - Media Matter: From Print to Screen Culture
- FTVM 350 - The Silent Screen: Arts and Cultures
- FTVM 353 - Film History: Post New Wave
- FTVM 354 - New Media History
- FTVM 355 - Television History
- FTVM 358 - Italian Film: History, Art, Entertainment
- FTVM / WGS 361 (WOMENSTD 361) - Women in Film
- FTVM 365 - Race and Ethnicity in Contemporary American Television
- FTVM 366 - Film, Television, and Popular Culture (rotating topics)
- FTVM 367 - Introduction to Digital Media Studies
- FTVM 368 - Topics in Digital Media Studies (rotating topics)

- FTVM 372 - Contemporary Film Theory
- FTVM 375 - Television Theory
- FTVM 376 - Digital Media Theory
- FTVM / AMCULT / LATINOAM 380 - Studies in Transnational Media
- FTVM / AMCULT / LATINOAM 381 - Latinas(os) and the Media
- FTVM 422 - Topics in Avant-Garde Film
- FTVM 435 (335) – Authorship & the Archive: Exploring the Film, Theater, & TV Collections of the U of M Special Collections Library
- FTVM 440 / AAS 440 - African Cinema
- FTVM 441 - National Screens (rotating topics)
- FTVM 442 / AAS 442 - Third World Cinema
- FTVM 451 / AMCULT 490 - American Film Genres
- FTVM 455 - Topics in Film (rotating topics)
- FTVM / ASIAN 458 - Korean Film Culture
- FTVM 460 - Technology and the Moving Image
- FTVM / WGS 461 (WOMENSTD 461) - Explorations in Feminist Film Theory
- FTVM 475 – Popular Film and TV Culture
- FTVM 485 - The Global Screen
- COMM 251 - Understanding Media Industries

Optional Submajor: **Screenwriting**

Other Department Policies

Screenwriting Submajor of Film, Television, and Media Major

The department offers a sub-major in Screenwriting to undergraduate students in the Film, Television, and Media major who demonstrate a special talent for writing for the screen.

Distribution Policy

No course used to fulfill a major requirement may be used toward the **LSA Distribution Requirement**. In addition, courses in the FTVM and SAC subject areas may not be used toward the Distribution Requirement.

Honors

The Honors plan in the Department of Film, Television, and Media offers qualified Film, Television, and Media majors a special opportunity. Upper-level students with strong academic records and a demonstrated ability to carry out the independent work required to complete an Honors thesis, screenplay, film, video or digital production are encouraged to apply. The Film, Television, and Media Honors major is not restricted to students who have been in the College Honors Program in their freshman and sophomore years.

Upon successful completion of the Honors plan, students may graduate with Honors, High Honors, or Highest Honors in Film, Television, and Media, depending on the evaluation of their thesis, screenplay, or project. These Honors designations appear on their diploma along with any College Honors designations they earn from their overall grade point.

Students accepted into the Honors plan also become members of the Honors Program of the College of Literature, Science, and the Arts. As members of the LSA Honors Program, they gain access to a variety of special services such as possible financial support for their Honors work. In

addition, students may also apply for competitive scholarships administered by the Department of Film, Television, and Media to help with costs associated with Honors projects.

Admission. To be considered for the Honors major, students must have a grade point average of 3.5 or higher in the Film, Television, and Media major. Students must also identify a Film, Television, and Media faculty sponsor and file an application for admission to the Honors plan no later than three terms prior to the intended graduation date. For further information, contact the Film, Television, and Media Department at (734) 764-0147.

Screenwriting (Sub-Major)

The department offers a submajor in Screenwriting to undergraduate students in the Film, Television, and Media major who demonstrate a special talent for writing for the screen.

If a student is not accepted into the Screenwriting submajor, he or she may continue with the Film, Television, and Media major. The courses required of the student to apply for the submajor will all satisfy requirements in the general Film, Television, and Media major, whether or not the student is successful in his/her application to the Screenwriting submajor. Students who receive notice of their acceptance into the Screenwriting submajor from the Screenwriting Coordinator should see the Associate Chair of Film, Television, and Media to complete a revised major declaration form to notify the college of their admission into the Screenwriting submajor.

Submajors are expected to complete all normal Film, Television, and Media requirements for the major in the studies-based part of the curriculum.

Effective Fall 2019

Advising

Students who may be interested in a major in Film, Television, and Media are encouraged to consult with a department advisor. Appointments are scheduled online at: https://webapps.lsa.umich.edu/AdvAppts/AA_StuSelfSvc1.aspx?ctgy=SAC

Prerequisites

Additional Pre-requisites and/or requirements are listed on the Film, Television, and Media Major page.

FTVM 236 completed with a minimum grade of C-. The prerequisite for the Film, Television, and Media major may be taken for a grade or may be taken P/F.

Students interested in the submajor must take the same prerequisite course required of students wishing to declare the Film, Television, and Media major. Students with grade lower than C- in this course should meet with an advisor to declare his/her major in Film, Television, and Media.

Students must then take FTVM 290 and 210, followed by FTVM 310. After successful completion of FTVM 310, and acceptance and successful completion, B- or better, in

FTVM 410, the student may apply for the Screenwriting submajor. The student should contact the Coordinator of Screenwriting to state their interest in applying to the submajor.

Requirements

Final approval for the Screenwriting submajor is based on the student's acceptance and successful completion, B or better, of one of the following:

- FTVM 427, Screenwriting III
OR
FTVM 423, Practicum for the Screenwriter (only if the student is selected as one of the two screenwriters for the course)
- FTVM 311, Screenwriting for Television

Note: If a student is not accepted into the Screenwriting submajor, he or she may continue with the Film, Television, and Media major. The courses required of the student to apply for the submajor will all satisfy requirements in the general Film, Television, and Media major, whether or not the student is successful in his/her application to the Screenwriting submajor. Students who receive notice of their acceptance into the Screenwriting submajor from the Screenwriting Coordinator should see the Associate Chair of Film, Television, and Media to complete a revised major declaration form to notify the college of their admission into the Screenwriting submajor.

Submajors are expected to complete all normal Film, Television, and Media requirements for the major in the studies-based part of the curriculum.

Distribution Policy

No course used to fulfill a major requirement may be used toward the **LSA Distribution Requirement**. In addition, courses in the FTVM and SAC subject areas may not be used toward the Distribution Requirement.

Honors

After successful completion of FTVM 410, students with a GPA of 3.5 or above in the Film, Television, and Media major and 3.4 GPA overall may wish to declare Honors in Screenwriting. Interested students should consult the Coordinator of Screenwriting.

Food and the Environment Minor

The Food and the Environment Minor is an interdisciplinary program of study with courses addressing questions of food production, consumption, and policy in relation to the environment, human health, and equity.

Today's global food system produces unprecedented quantities of food. Nevertheless, the World Health Organization estimates that over one billion people lack adequate food to satisfy the minimum standards of nutrition, despite more than adequate global supplies, a perplexing pattern that has been evident for many years. An even more perplexing pattern is the irony that obesity has become a major health problem for some, even as hunger continues

to plague others. Moreover, the modern agricultural system that developed during the past century is increasingly recognized as environmentally unsustainable, in many cases causing environmental degradation and substantial losses in biological diversity. Finally, for the consumers, food safety has emerged as a critical issue and for the producers -- farmers and farm workers -- workplace safety and low compensation threaten the sustainability of their livelihoods.

A global food system that simultaneously produces hunger and obesity, that generates significant collateral environmental degradation and that compromises the well-being of consumer and producer alike, challenges the academic community to engage in serious analysis and action. This challenge has been partially met with the emergence of a new paradigm that emphasizes sustainability and social equity rather than profit and production at its core. Contributions to this new paradigm are emerging from many sectors of society, especially at the grassroots level (e.g., local food systems, increased demand for organic and fair-trade products, reinvigoration of inner cities through urban agriculture, new business models such as “community supported agriculture,” etc.). The university is the ideal place to forge the intellectual foundation that will inform and guide the construction of a coherent path toward a sustainable and equitable food system, which helps to reinvigorate rural and urban communities, promote environmental protection and enhance economies at state, national and international levels.

This minor is intended for students with a keen interest in expanding their study of sustainable and equitable ways to produce and deliver nutritious food so as to improve people’s health and livelihoods. The minor consists of courses analyzing the current food system across a range of disciplines, documenting some of its more unsustainable characteristics and proposing alternatives.

Effective Winter 2023

Advising

Students interested in declaring either a major or a minor must attend an information session. Information sessions are held throughout the Fall and Winter terms. Appointments may be scheduled with Program advisors on-line at: [/lsa.umich.edu/pite/minors/advising.html](https://lsa.umich.edu/pite/minors/advising.html) PitE staff and faculty advisors working in tandem with faculty advisors in other units will help students navigate the Food and the Environment Minor.

Prerequisites

None.

Requirements

Minimum Credits: 15

The Food Systems Minor consists of no less than 5 courses for a total of at least 15 credits, at least two courses must be 300 -level or above, from the following categories as stated:

1. **Introductory Courses.** Select at least one of the following as an orientation to the minor:
 - BIOLOGY 101 / ENVIRON 101: Food, Energy, and the Environment
 - BIOLOGY 102: Practical Botany
 - BIOLOGY 105: Biology of Nutrition

- ENVIRON 270: Our Common Future: Ecology, Economics and Ethics of Sustainable Development
- ENVIRON 290: Food: The Ecology, Economics, and Ethics of Growing and Eating
- UC 254: Sophomore Interdisciplinary Seminar, *section titled "Much Depends on Dinner"*

2. **Topical Courses.** Three courses chosen from the following:

- Any course listed above not used to satisfy the introductory or synthetic course requirement
- ANTHRBIO 364: Nutrition and Evolution
- ANTHRBIO 373: Humans and Environmental Change
- ANTHRCUL 254: Anthropology of Food
- ANTHRCUL 458: Topics in Sociocultural and Linguistic Anthropology, *section titled "Anthropology of Food and Eating"*
- ARCH 357 / URP 357: Architecture, Sustainability and the City: Ideas, Forces and People Shaping the Built Environment
- BIOLOGY 102: Practical Botany
- BIOLOGY 212: Plants and Human Health
- CLARCH 382 / CLCIV 382: Food in the Ancient World: Subsistence and Symbol
- CLCIV 382 / CLARCH 382: Food in the Ancient World: Subsistence and Symbol
- EARTH 154: Ocean Resources
- EARTH 159: Toward a Sustainable Human Future
- EARTH 333: Inexhaustible Seas?: Marine Resources and Environmental Issues
- EHS 540: Maternal and Child Nutrition
- EHS 642: Community Nutrition
- ENVIRON 219/MIDEAST 209: Food and Drink in the Middle East
- ENVIRON 236/HISTORY 236: Environment and History in Preindustrial Europe
- ENVIRON 242: Topics in Environmental Social Science, *section titled "2.5 Million Years of Human Foods and Foodways: A Framework for Understanding Modern Diets"*
- ENVIRON/ASIAN 258: Food and Drink of Asia
- ENVIRON/EARTH 262: Plants and People
- ENVIRON 302: Topics in Environmental Social Science, *section titled "The Measure of Our Meals"*
- ENVIRON 314: Food Literacy for All
- ENVIRON 317: Conservation of Biological Diversity
- ENVIRON/ASIAN/INTLSTD 351: Chinese Food in Crisis: Health, Ecology, and Identity in an Age of Globalization
- ENVIRON 390 / RCIDIV 390: Environmental Activism: Citizenship in a Republic
- ENVIRON 421: Restoration Ecology
- ENVIRON 436: Woody Plants: Biology and Identification
- ENVIRON 484: Localization: Transitional Thinking for the New Normal
- HONORS 252: Honors Natural Sciences Seminar, *section titled "2.5 Million Years of Human Foods and Foodways: A Framework for Understanding Modern Diets"*

- MOVESCI/AES 241: Exercise, Nutrition and Weight Control
 - NRE 501: Graduate Experimental, *section titled "Urban Agriculture"*
 - NRE 565: Principles of Transition: Food, Fuel and Finance in a Biophysically Constrained, Ethically Challenged World
 - PUBHLTH 309: Hunger in America
 - PUBHLTH 310: Nutrition in the Life Cycle
 - RCIDIV 390 / ENVIRON 390: Environmental Activism: Citizenship in a Republic
 - UC 370: UC Special Topics, *section titled "The Measure of Our Meals"*
 - URP 357 / ARCH 357: Architecture, Sustainability and the City: Ideas, Forces and People Shaping the Built Environment
3. **Synthetic Courses.** Select at least one of the following courses, which synthesize approaches and knowledge bases relevant to the issue, as a conclusion to the minor:
- ALA 370: Applied Liberal Arts Topics, *section titled "Measure of Our Meals"*
 - ANTHR BIO 364: Nutrition and Evolution
 - ANTHRCUL 458: Topics in Sociocultural and Linguistic Anthropology, *section titled "Food, Politics, and Environment"*
 - ARTDES 300: Elective Studios, *section titled "Sustainable Food System Design"*
 - CLARCH/CLCIV 382: Food in the Ancient World: Subsistence and Symbol
 - EEB 498: The Ecology of Agroecosystems
 - ENVIRON 314: Food Literacy for All
 - ENVIRON/ASIAN/INTLSTD 351: Chinese Food in Crisis: Health, Ecology, and Identity in an Age of Globalization
 - ENVIRON 462: Topics in Environmental Social Science, *sections titled "Foundations of Sustainable Food Systems" and "Food Policy"*
 - ENVIRON 465: Interdisciplinary Environmental Topics, *section titled "Campus Farm Ecological and Organic Farming Practicum"*
 - ENVIRON 484: Localization: Transitional Thinking for the New Normal
 - PUBHLTH 309: Hunger in America
 - PUBHLTH 310: Nutrition in the Life Cycle
 - PUBHLTH 323: Food Security and Food Assistance in the U.S.
 - RCIDIV 316 / EEB 316 / ENVIRON 316: Introduction to Food Systems
or
RCIDIV 318 / EEB 318 / ENVIRON 318: Food, Land, and Society

Related Courses. The Program in the Environment will provide students with a list of “cognate” or related courses that, while not labelled or primarily described as food systems courses, would nonetheless be of keen interest to our minors.

Food and the Environment (Minor) (Fall 2015 - Fall 2022)

Effective Fall 2015

Advising

Students interested in declaring either a major or a minor must attend an information session. Information sessions are held throughout the Fall and Winter terms. Appointments may be

scheduled with Program advisors on-line at: [/lsa.umich.edu/pite/minors/advising.html](http://lsa.umich.edu/pite/minors/advising.html)
PitE staff and faculty advisors working in tandem with faculty advisors in other units will help students navigate the Food and the Environment Minor.

Prerequisites

None.

Requirements

Minimum Credits: 15

The Food Systems Minor consists of no less than 5 courses for a total of at least 15 credits, at least two courses must be 300 -level or above, from the following categories as stated:

1. **Introductory Courses.** Select at least one of the following as an orientation to the minor:
 - BIOLOGY 101 / ENVIRON 101: Food, Energy, and the Environment
 - ENVIRON 270: Our Common Future: Ecology, Economics and Ethics of Sustainable Development
 - ENVIRON 290: Food: The Ecology, Economics, and Ethics of Growing and Eating
 - UC 254: Sophomore Interdisciplinary Seminar, *section titled "Much Depends on Dinner"*
2. **Topical Courses.** Three courses chosen from the following:
 - Any course listed above not used to satisfy the introductory or synthetic course requirement
 - ANTHR BIO 364: Nutrition and Evolution
 - ANTHRCUL 458: Topics in Sociocultural and Linguistic Anthropology, *section titled "Anthropology of Food and Eating"*
 - ARCH 357 / URP 357: Architecture, Sustainability and the City: Ideas, Forces and People Shaping the Built Environment
 - BIOLOGY 102: Practical Botany
 - CLARCH 382 / CLCIV 382: Food in the Ancient World: Subsistence and Symbol
 - CLCIV 382 / CLARCH 382: Food in the Ancient World: Subsistence and Symbol
 - EARTH 154: Ocean Resources
 - EARTH 159: Toward a Sustainable Human Future
 - EARTH 333: Inexhaustible Seas?: Marine Resources and Environmental Issues
 - EHS 540: Maternal and Child Nutrition
 - EHS 642: Community Nutrition
 - ENVIRON 242: Topics in Environmental Social Science, *section titled "2.5 Million Years of Human Foods and Foodways: A Framework for Understanding Modern Diets"*
 - ENVIRON 302: Topics in Environmental Social Science, *section titled "The Measure of Our Meals"*
 - ENVIRON 390 / RCIDIV 390: Environmental Activism: Citizenship in a Republic
 - ENVIRON 421: Restoration Ecology
 - HONORS 252: Honors Natural Sciences Seminar, *section titled "2.5 Million Years of Human Foods and Foodways: A Framework for Understanding Modern Diets"*
 - NRE 501: Graduate Experimental, *section titled "Urban Agriculture"*
 - NRE 565: Principles of Transition: Food, Fuel and Finance in a Biophysically

- Constrained, Ethically Challenged World
 - RCIDIV 390 / ENVIRON 390: Environmental Activism: Citizenship in a Republic
 - UC 370: UC Special Topics, *section titled "The Measure of Our Meals"*
 - URP 357 / ARCH 357: Architecture, Sustainability and the City: Ideas, Forces and People Shaping the Built Environment
3. **Synthetic Courses.** Select at least one of the following courses, which synthesize approaches and knowledge bases relevant to the issue, as a conclusion to the minor:
- ANTHRCUL 458: Topics in Sociocultural and Linguistic Anthropology, *section titled "Food, Politics, and Environment"*
 - ARTDES 300: Elective Studios, *section titled "Sustainable Food System Design"*
 - EEB 498: The Ecology of Agroecosystems
 - RCIDIV 316 / EEB 316 / ENVIRON 316: Introduction to Food Systems
or
RCIDIV 318 / EEB 318 / ENVIRON 318: Food, Land, and Society

Related Courses. The Program in the Environment will provide students with a list of “cognate” or related courses that, while not labelled or primarily described as food systems courses, would nonetheless be of keen interest to our minors.

French and Francophone Studies Major

A major in French allows students considerable flexibility in developing a program of study leading to competence in the French language and basic familiarity with French and Francophone cultures and literatures.

Effective Fall 2022

Advising

The Department offers majors in French, Italian, Romance Languages & Literatures, and Spanish. It offers minors in French, Italian, Portuguese, and Spanish.

Appointments are scheduled **online** or at the department office, 4108 Modern Languages Building, (734) 764-5344.

Prerequisites

FRENCH 230 or 232, or RCLANG 290 or 310, with a grade of C- or higher; or assignment by placement test.

Requirements

Minimum Credits: 33

FRENCH 235 and a minimum of 30 credits in French and Francophone Studies courses numbered FRENCH 240 and above. Of these, a minimum of 18 credits must be numbered 300 or above, or equivalent.

A maximum of two courses in the major may be chosen from French courses taught in English without language prerequisites. Students who begin their French coursework in the language program sequence (FRENCH 100-232) may replace one 240-level French course

taught in English with three credits from FRENCH 232, FRENCH 230, or RCLANG 290. Residential College students may substitute RCLANG 320 for FRENCH 235. Students who complete a second and/or a third RCLANG 320 course will receive major credit for a French elective at the 270 level.

Majors must take one of the following literature and culture courses in RLL at the Ann Arbor campus: FRENCH 350-379, 402, 450-499.

To ensure that French majors and minors gain a broad range of knowledge in the French language, literature, and culture, a maximum of nine credits from the French business and/or internship courses (FRENCH 281, 380, 381, and 414) as well as any of their equivalents accepted as transfer and/or study abroad credit can count toward the major or minor.

FRENCH AP or IB credit may count as one upper-200-level FRENCH course taught in French. For more details, visit: lsa.umich.edu/rll/undergraduates/language-placement/ap-and-ib-credits.html

French majors are encouraged to consider the possibility of studying abroad.

Students pursuing graduate studies in French should be aware that most graduate programs expect substantial preparation in literature. For this reason, students interested in earning a graduate degree in French should give particular consideration, in choosing their courses, to FRENCH 270-274, 362-369, 378, and 400-level courses in literature and culture.

Residency

A minimum of 18 of the required 33 credits must be taken either in residence or through a study abroad program affiliated with the University of Michigan

AP or IB credit is considered out-of-residence credit.

Distribution Policy

No course used to fulfill a major requirement may be used toward the **LSA Distribution Requirement**. In addition, courses in the CATALAN, FRENCH, ITALIAN, PORTUG, ROMLANG, ROMLING, and SPANISH subject areas may not be used toward the Distribution Requirement.

Honors

Qualified students may be admitted to a program of advanced study during their junior year (or at the beginning of the senior year following foreign study), leading to the degree of Bachelor of Arts with Honors in French. Admission to senior-level Honors work in French is by application only (forms are available on the department website at www.lsa.umich.edu/rll). A grade point average of at least 3.4 in all courses, and of 3.5 in all French and Francophone courses, is required for admission and for graduation with Honors in French. The Honors Committee expects applicants to demonstrate superior ability for their level in both oral and written French, and to present evidence of serious interest in research.

French and Francophone Studies Honors majors are required to complete 36 credits of coursework and successfully defend a thesis:

Course Requirements:

All regular French major requirements must be completed (33 credits) with 3 additional credits at the 300 level or above. 6 of the required 36 credits will consist of French 491 and 492, Senior Honors Courses, normally taken in the fall and winter terms, respectively, of a student's senior year.

Thesis Requirement:

Composition of a thesis, in French, incorporating the results of individual research, demonstrating a substantial piece of work; and

A presentation and discussion of the thesis and of an agreed upon set of related readings with the student's faculty advisor and one other faculty reader.

Working under the direction of a faculty member who serves as thesis director, the student will research the thesis, complete a bibliography and prospectus, and begin drafting the writing process while enrolled in FRENCH 491. In the following academic term the student will enroll in FRENCH 492 and complete the thesis and its presentation and discussion.

Teaching Certificate

Students who are interested in learning more about pursuing Teacher Education should contact Dr. Maria Coolican. For further information about teacher certification options in the School of Education, please review the Teacher Certification Options. To review the specific courses that are required for the various teaching majors, please see the Teaching Major and Minor Requirements.

French and Francophone Studies Minor

The Department offers majors in French, Italian, Romance Languages & Literatures, and Spanish. It offers minors in French, Italian, Portuguese, and Spanish.

When combined with study in another field, knowledge of a Romance language will open doors to a wide variety of career and educational opportunities. Today, learning of other languages, peoples, and cultures is not only useful, it is imperative.

If you are majoring in another field, the French and Francophone Studies minor offers you an opportunity to complement the knowledge gained in your principal field, while adding a cultural and linguistic dimension to your academic experience.

Effective Fall 2021

Exclusions:

The French and Francophone Academic minor is not open to students with a French major or any other minor in Romance Languages and Literatures.

Advising

Appointments are scheduled **online** or at the department office, 4108 Modern Languages Building, (734) 764-5344.

Prerequisites

FRENCH 230 or 232 with a grade of C- or higher; or RCLANG 290 or 310, or assignment by placement test.

Requirements

Minimum Credits: 21

- FRENCH 235 and 18 credits of courses in FRENCH numbered FRENCH 240 and above, with a minimum of 9 credits at the 300 level. Residential College students may substitute RCLANG 320 for FRENCH 235. Students who complete a second and/or a third RCLANG 320 course will receive minor credit for a French elective at the 270 level.
- Students may take up to one French course taught in English without language prerequisites. Students who begin their French coursework in the language program sequence (FRENCH 100-232) may replace one course taught in English, at the 240-level, with three credits from FRENCH 232, FRENCH 230, or RCLANG 290.
- Minors must take one of the following literature and culture courses in RLL at the Ann Arbor campus: FRENCH 350-379, 402, 450-499.
- FRENCH AP or IB credit may count as one upper-200-level FRENCH course taught in French. For more details, visit: lsa.umich.edu/rll/undergraduates/language-placement/ap-and-ib-credits.html

Constraints

To ensure that French majors and minors gain a broad range of knowledge in the French language, literature, and culture, a maximum of nine credits from the French business and/or internship courses (FRENCH 281, 380, 381, and 414), as well as any of their equivalents accepted as transfer and/or study abroad credit, can count toward the major or minor.

Residency

- Minors must take one of the following literature and culture courses in RLL at the Ann Arbor campus: FRENCH 350-379, 402, 450-499.
- At least 12 of the 21 credits for the Academic Minor must be taken in residence or in a study abroad program affiliated with the University of Michigan.
- AP or IB credit is considered out-of-residence credit.

Gender and Health Major

The major offers a critical, feminist analysis of research, practice, and policies concerning gender and health. Specifically, the major allow students to examine the intersections of social

categories, such as gender, race / ethnicity, social class, and sexuality, with conceptualizations of health, healthcare delivery, and health-related policies. Moreover, students, for example, investigate the limits of the biomedical model, apply a feminist lens to the understanding, critique, and construction of health, explore health-related issues within a global and transnational context, grapple with ethical dilemmas in real-world case studies, and critically analyze the impact of power inequalities in specific health-related areas (e.g., the use of medical technologies and treatment of epidemic diseases).

The major offers students a truly interdisciplinary, liberal arts experience with a variety of courses, spanning disciplinary approaches in the humanities and social sciences. It provides students with intellectually rich, challenging, and suitable academic preparation for a diverse series of jobs and advanced graduate or professional training.

Effective Winter 2023

Exclusions:

Gender and Health majors may not major in Women's and Gender Studies or minor in Gender and Health.

Advising

Advising appointments are made online. To make an advising appointment, please see the bottom left hand corner of the Women's and Gender Studies website main page: www.lsa.umich.edu/women.

Students wishing to pursue a minor in Women's and Gender Studies must develop a specific plan for its completion in consultation with the department's designated advisor. Advising appointments are made online. To make an advising appointment, please see the bottom left-hand corner of the Women's and Gender Studies website main page: www.lsa.umich.edu/women.

Grade Policies

To complete the major, students must receive a grade of C- or above in all required courses.

Prerequisites

WGS / NURS 220 (WOMENSTD / NURS 220). Perspectives in Women's Health

Requirements

Minimum Credits: 33

I. Core:

- A. **Feminist Theory Seminar.** One of the following:
 - WGS 330 (WOMENSTD 330): Feminist Thought
 - WGS 331 (WOMENSTD 331): Feminist Theoretical Perspectives in Gender and Health
- B. The **Practicum course requirement** is intended to ensure that majors gain exposure to and participate in hands-on research or community service internships in which critical feminist approaches to gender and health are materially relevant. By approval of both the relevant instructor and the Women's and Gender Studies undergraduate office, students may satisfy this requirement with courses

that allow them an immersive experience with gender and health-related research, service learning, or mentorships focused on gender and health issues.

Some courses that will satisfy the practicum requirement are:

- WGS 310: Health, Gender, and Performance (*only if elected FA23 or later*)
- WGS 350 (WOMENSTD 350): Nonprofit Management, Community Engagement, and Feminist Practice
- WGS 351 (WOMENSTD 351): Leading Feminism (W17)
- WGS 353: Helping Hands: The Science of Doulas
- WGS 384 (WOMENSTD 384): Independent Research (by department advisor approval) Students obtain approval from the instructor and the department advisor to do so via their participation in appropriately focused research or an apprentice-based research project that focuses on gender and health issues.
- WOMENSTD / HS 404: Gender Based Violence: From Theory to Action.
- SOC 225: Project Community: *various specifically approved topics - see department advisor*

C. **Thematic Area Requirements.** Complete at least one courses in each of four thematic areas. ***A course cannot be double counted to meet more than one thematic area requirement.***

1. **LGBTQ and Sexuality Studies in Health.** These courses focus on sexual minority health and the contributions of feminist scholarship and queer theory as applied to the development of sexual identities, understandings of sexual health, and the experiences of LGBTQ people with healthcare delivery, health related policies, and social justice movements, as well as the history of sexuality more generally.

- WGS 239 (WOMENSTD 239) / AMCULT 239: Gender, Sexuality, and Health in America
- WGS 305 (WOMENSTD 305) / ALA 306: Interdisciplinary & Intersectional LGBTQ Health
- WGS 314 (WOMENSTD 314) / ENGLISH 314: Gender and Sexuality Studies in Literature, *section titled "The Culture of AIDS"*
- WGS 348 (WOMENSTD 348) / SOC 345: Sociology of Sexualities
- WGS 352 (WOMENSTD 352) / ASIAN 352: Gender, Sex & Power in Pre-Modern China (F19)
- WGS 394 (WOMENSTD 394) / PSYCH 394: Sex, Sexuality, and Public Policy
- WGS 407 (WOMENSTD 407): Intersexualities
- WGS 415: LGBTQ Reproduction (*only if elected FA23 or later*)
- WGS 432 (WOMENSTD 432): Advanced Topics in Gender & Health, *sections titled "Diagnosis, Sex & Society" (only if taken Winter 2019 or later) or "LGBTQ Reproductive Health" (only if taken Fall 2020 or later)*
- WGS 449 (WOMENSTD 449) / SOC 445: Diagnosis, Sex & Society
- WGS 452 (WOMENSTD 452) / PSYCH 414: Sexuality and Science
- WGS 494 (WOMENSTD 494) / PSYCH 494: Adolescent Sexuality
- SOC 495: Topics in Sociology, *section titled "Diagnosis, Sex & Society"*

2. **Critical Race and Ethnic Studies in Gender and Health.** These courses will

rely on a feminist perspective to examine how the intersections of gender, race, and ethnicity (and other salient categories of identity) impact health-related issues (e.g., conceptualizations of disease and well-being, social disparities in health and healthcare seeking, relations between healthcare providers and patients) with a primary focus on the United States.

- WGS 222/ENGLISH 212: Narratives of Girlhood
 - WGS 233 (WOMENSTD 233) / AMCULT 233: Genes and Society: Comparative and International Perspectives
 - WGS 239 (WOMENSTD 239) / AMCULT 239: Gender, Sexuality, and Health in America
 - WGS 291 (WOMENSTD 291) / PSYCH 291: Introduction to Psychology of Women and Gender
 - WGS 305 (WOMENSTD 305) / ALA 306: Interdisciplinary & Intersectional LGBTQ Health
 - WGS 341: Topics in LGBTQ Studies, *section titled "Black Queer Histories"*
 - WGS 343 (WOMENSTD 343): Special Topics in Gender, Race, and Ethnicity in the U.S. (*certain topics*)
 - WGS 356 (WOMENSTD 356) / AMCULT 331 / HISTORY 356: Health in America: Patterns, Experiences, and Inequalities
 - WGS 365 (WOMENSTD 365) / HISTORY 365 / AMCULT 331: Critical Race & Ethnic Studies in Health (W19)
 - WGS 392/ AAS 392 / AMCULT 392: Mental Health in U.S
 - WGS 443 (WOMENSTD 443) / AAS 443: Pedagogy of Empowerment: Activism in Race, Gender, and Health
3. **Gender and Health in Bioscience.** These courses present students with knowledge about basic biological processes, pertaining to healthy developmental periods, life transitions, or particular illnesses, in combination with critical feminist examinations about the process of conducting research in the biological sciences and the applications and societal impact of such work.
- WGS 233 (WOMENSTD 233) / AMCULT 233: Genes and Society: Comparative and International Perspectives
 - WGS 296 (WOMENSTD 296) / HISTORY / PSYCH 296: Gender, Sex Differences, and Addiction: Girls Gone Wild
 - WGS 300 (WOMENSTD 300): Men's Health
 - WGS 333: Biomedical Knowledge, Science, and Power (*only if elected SP23 or later*)
 - WGS 342 (WOMENSTD 342): Special Topics in Gender and Health, *section titled "Biomedical Knowledge: Behavior, Science and Gender" (only if elected WN20 or later)*
 - WGS 400 (WOMENSTD 400): Women's Reproductive Health
 - WGS 407 (WOMENSTD 407): Intersexualities
 - WGS 432 (WOMENSTD 432): Advanced Topics in Gender and Health, *section titled "Gender and Contested Illness" (only if elected WN20 or later)*
 - WGS 452 (WOMENSTD 452) / PSYCH 414: Sexuality and Science

4. **Gender and Health in Global, Transnational, or Historical Perspectives.** In this thematic area, one set of courses offers a comparative cross-cultural perspective on health-related phenomena by relying upon feminist theories and global feminisms to place topics of study in a global, transnational context. Another set of courses provides students with the comparative vision promoted through in-depth understanding of the rich and complex historical background of many current health-related issues.
- WGS 212 (WOMENSTD 212) / NURS 225: Global Perspectives on the HIV and AIDS Epidemic
 - WGS 213: Topics in Gender and the Humanities, *sections titled "War, Gender, Masculinity, Violence"*
 - WGS 233 (WOMENSTD 233) / AMCULT 233: Genes and Society: Comparative and International Perspectives
 - WGS 239 (WOMENSTD 239) / AMCULT 239: Gender, Sexuality, and Health in America
 - WGS 242 (WOMENSTD 242) / AMCULT 242: Gender and Violence in a Global Context
 - WGS 296 (WOMENSTD 296) / HISTORY / PSYCH 296: Gender, Sex Differences, and Addiction: Girls Gone Wild
 - WGS 306: Maternal and Infant Health in Latin American History
 - WGS 307 (WOMENSTD 307) / ANTHRCUL / RCSSCI 327: Critical Theory in Medicine and Healing
 - WGS 312: Queering U.S. Immigration History
 - WGS 324 (WOMENSTD 324) / ANTHRCUL 325: Childbirth & Culture
 - WGS 328 (WOMENSTD 328) / AAS 328: Women, Agency and Sexual Safety
 - WGS 333: Biomedical Knowledge, Science, and Power (*only if elected SP23 or later*)
 - WGS 342 (WOMENSTD 342): Topics in Gender & Health, *section titled "Histories of Women, Medicine and Reproduction" (F17) or "Biomedical Knowledge: Behavior, Science and Gender"*
 - WGS 345 (WOMENSTD 345): Topics in Gender in a Global Context, *section titled "Sexual Violence and the State" (F17)*
 - WGS 352 (WOMENSTD 352) / ASIAN 352: Gender, Sex & Power in Pre-Modern China (F19)
 - WGS 356 (WOMENSTD 356) / AMCULT 331 / HISTORY 356: Health in America: Patterns, Experiences, and Inequalities
 - WGS 365 (WOMENSTD 365) / AAS 365: Global Perspectives on Gender, Health, and Reproduction
 - WGS 377: Topics in Gender, *section titled "In Sickness and in Health: Medical Anthropologies of Kinship, Relatedness, and the Human"*
 - WGS 408: Gender and Health in East Asia: Historical and Contemporary Perspectives
 - WGS 432 (WOMENSTD 432): Advanced Topics in Gender and Health, *sections titled "Introduction to Global Health" or "Gender and Mental Health in the 19th Century" (F16) or "Women, Gender and Health"*

in E Asia: Historical and Contemporary Perspectives" (only if elected WN20 or later)

- WOMENSTD 438: Gender, Health, and Well-being in Africa
- NURS 420: Introduction to Global Health: Issues and Challenges

II. Gender and Health Electives. *Electives must bring the total number of credits in the major up to 27 (excluding cognates). Select at least three courses.*

- Any of the courses in “thematic areas” section
- WGS 225 (WOMENSTD 225) / PSYCH 225: Psychology of Human Sexuality
- WGS 252: Special Topics Mini-course (*specific topics*)
- WGS 291 (WOMENSTD 291) / PSYCH 291: Introduction to the Psychology of Women and Gender
- WGS 313 (WOMENSTD 313): Special Topics in Gender and the Humanities, *sections titled “Gender, Autobiography and the Medical Body”, “Disability Culture” or “Women and Well-Being in Literature” (only if elected WN 20 or later)*
- WGS 342 (WOMENSTD 342): Special Topics in Gender and Health
- WGS 402 (WOMENSTD 402): Gender and Health Policy
- WGS 410 (WOMENSTD 410): Reproductive Justice: Legal and Ethical Issues
- WGS 421 (WOMENSTD 421) / SM 421: Gender and Sport
- WGS 432 (WOMENSTD 432): Advanced Topics in Gender and Health, *sections titled “Movements for Sexual and Reproductive Justice”, “Introduction to Global Health”*
- WGS 484: Science and Gender (*only if elected FA23 or later*)
- ENGLISH 313: Topics in Literary Studies, *section titled “Gender, Autobiography and the Medical Body”*
- ENGLISH 317: Literature and Culture, *section titled “Disability Culture”*
- POLSCI 495: Undergraduate Seminar in Political Theory, *section titled “Disability: A Democratic Dilemma”*

III. Gender, Culture and Representation Requirement. One of the four thematic area courses or one of the elective courses must be a course that addresses “gender, culture and representation” on a health-related topic.

- ENGLISH 317: Literature and Culture, *section titled “Disability Culture”*
- WGS 213: Topics in Gender and the Humanities, *sections titled “War, Gender, Masculinity, Violence”*
- WGS 222/ENGLISH 212: Narratives of Girlhood
- WGS 233 (WOMENSTD 233) / AMCULT 233: Genes and Society: Comparative and International Perspectives
- WGS 239 (WOMENSTD 239) / AMCULT 239: Gender, Sexuality, and Health in America
- WGS 296 (WOMENSTD 296) / HISTORY / PSYCH 296: Gender, Sex Differences, and Addiction: Girls Gone Wild
- WGS 310: Health, Gender, and Performance (*only if elected in FA23 or later*)
- WGS 313 (WOMENSTD 313): Special Topics in Gender and the Humanities, *sections titled “Gender, Autobiography and the Medical Body”, “Disability Culture”, “Gender and Health in Literature” (W19), or “Women and Well-Being in Literature” (only if elected WN 20 or later)*

- WGS 314 (WOMENSTD 314) / ENGLISH 314: Gender and Sexuality Studies in Literature, *section titled "The Culture of AIDS"*
- WGS 342 (WOMENSTD 342): Topics in Gender & Health, *section titled "Histories of Women, Medicine and Reproduction"* (F17)
- WGS 352 (WOMENSTD 352) / ASIAN 352: Gender, Sex & Power in Pre-Modern China (F19)
- WGS 392/ AAS 392 / AMCULT 392: Mental Health in U.S
- WGS 408: Gender and Health in East Asia: Historical and Contemporary Perspectives
- WGS 432 (WOMENSTD 432): Advanced Topics in Gender & Health, *section titled "Race, Gender, and Mental Health in the 19th Century"* (F16); *"Women, Gender and Health in E Asia: Historical and Contemporary Perspectives"* (only if elected WN20 or later); or *"LGBTQ Reproductive Health"* (only if elected FA20 or later)
- WGS 484: Science and Gender (only if elected FA23 or later)

IV. **Cognate Requirement.** Two courses (for a total of six credits), neither in WGS (or WOMENSTD), nor cross-listed, are required. In order to compliment the interdisciplinary major in Gender and Health with training in a single discipline, students should take six cognate credits within the same discipline. Cognate courses should not be courses on gender and health but should provide supporting skills or contexts for the study of gender and health. Cognates are by Women's and Gender Studies advisor approval. A preliminary list of suggested cognate courses follows:

- AMCULT 284 / HISTORY 284: *Sickness and Health in Society: 1492 to the Present*
- AMCULT 365: *AIDS and America*
- ANATOMY / PHYSIOL 541 / PSYCH 532: *Mammalian Reproductive Physiology*
- ANTHRBIO / ANTHRCUL 342: *Nature/Culture Now!*
- ANTHRCUL / ANTHRBIO 342: *Nature/Culture Now!*
- ANTHRCUL / HISTART 354: *Art, Science, and Technology*
- ANTHRCUL 437: *The Anthropology of Death, Dying and the Afterlife*
- ANTHRCUL 447: *Culture, Racism, and Human Nature*
- CHEM 210: *Structure and Reactivity I*
- CHEM 215: *Structure and Reactivity II*
- HISTART / ANTHRCUL 354: *Art, Science, and Technology*
- HISTORY 234: *History of Medicine in the Western World from the 18th Century to the Present*
- HISTORY / AMCULT 284: *Sickness and Health in Society: 1492 to the Present*
- HISTORY 285 / RCSSCI 275: *Science, Technology, Medicine, and Society*
- HMP / PUBHLTH 200 / PUBPOL 210: *Health and Society: Introduction to Public Health*
- PHYSIOL / ANATOMY 541 / PSYCH 532: *Mammalian Reproductive Physiology*
- PSYCH 337: *Hormones and Behavior*
- PSYCH 532 / PHYSIOL / ANATOMY 541: *Mammalian Reproductive Physiology*
- PUBHLTH / HMP 200 / PUBPOL 210: *Health and Society: Introduction to Public Health*
- PUBHLTH 305: *The Environment and Human Health*
- PUBHLTH 350: *Global Public Health: Challenges and Transformations*

- PUBPOL 210/ PUBHLTH / HMP 200: Health and Society: Introduction to Public Health
- RCSSCI 275 / HISTORY 285: Science, Technology, Medicine, and Society

Constraints

A maximum of six credits of WGS (or WOMENSTD) independent study may be taken towards the major – excluding independent study credits that meet the practicum requirement.

Residency

For completion of the major, 14 credits of gender and health courses must be taken in residence on the Ann Arbor campus, including WGS 440 (WOMENSTD 440): Senior Capstone and not including cognates. "In-residence" means courses elected on the Ann Arbor campus or at off-campus sites directed by Ann Arbor faculty. This includes STDABRD, Camp Davis, Biological Station, Michigan-in-Washington.

Distribution Policy

No course used to fulfill a major requirement may be used toward the **LSA Distribution Requirement**. In addition, courses in the WGS or WOMENSTD subject area may not be used toward the Distribution Requirement.

Honors

Gender and Health majors who maintain an overall GPA of at least 3.4 through the first term of their junior year and a 3.5 in their Gender and Health courses will be eligible to complete their degree with a Gender and Health Honors designation. Most importantly, Gender and Health majors who wish to pursue an Honors Thesis will have an opportunity to complete a comprehensive, original independent project under the guidance of a Women's and Gender Studies faculty member with expertise in topics related to gender and health.

Student elect:

- WGS 389 (WOMENSTD 389): Junior Honors Seminar (may also count as an elective)

and the following additional courses:

- WGS 441 (WOMENSTD 441): Senior Honors Seminar 1
- WGS 442 (WOMENSTD 442): Senior Honors Seminar 2
- WGS 490 (WOMENSTD 490): Honors Thesis
- WGS 491 (WOMENSTD 491): Honors Thesis

Women's Studies (Major) (Winter 2019 - Summer 2020)

Effective Winter 2019

Exclusions:

Gender and Health majors may not major in Women's and Gender Studies or minor in Gender and Health.

Advising

Advising appointments are made online. To make an advising appointment, please see the bottom left hand corner of the Women's and Gender Studies website main

page: www.lsa.umich.edu/women.

Students wishing to pursue a minor in Women's and Gender Studies must develop a specific plan for its completion in consultation with the department's designated advisor. Advising appointments are made online. To make an advising appointment, please see the bottom left-hand corner of the Women's and Gender Studies website main page: www.lsa.umich.edu/women.

Grade Policies

To complete the major, students must receive a grade of C- or above in all required courses.

Prerequisites

WGS / NURS 220 (WOMENSTD / NURS 220). Perspectives in Women's Health

Requirements

Minimum Credits: 33

I. Core:

A. **Feminist Theory Seminar.** One of the following:

- WGS 330 (WOMENSTD 330): Feminist Thought
- WGS 331 (WOMENSTD 331): Feminist Theoretical Perspectives in Gender and Health

B. The **Practicum course requirement** is intended to ensure that majors gain exposure to and participate in hands-on research or community service internships in which critical feminist approaches to gender and health are materially relevant. By approval of both the relevant instructor and the Women's and Gender Studies undergraduate office, students may satisfy this requirement with courses that allow them an immersive experience with gender and health-related research, service learning, or mentorships focused on gender and health issues.

Some courses that will satisfy the practicum requirement are:

- WGS 350 (WOMENSTD 350): Nonprofit Management, Community Engagement, and Feminist Practice
- WGS 351 (WOMENSTD 351): Leading Feminism (W17)
- WGS 384 (WOMENSTD 384): Independent Research (by department advisor approval) Students obtain approval from the instructor and the department advisor to do so via their participation in appropriately focused research or an apprentice-based research project that focuses on gender and health issues.
- WOMENSTD / HS 404: Gender Based Violence: From Theory to Action.
- SOC 225: Project Community: *various specifically approved topics - see department advisor*

C. **Thematic Area Requirements.** Complete at least one courses in each of four thematic areas. *A course cannot be double counted to meet more than one thematic area requirement.*

1. **LGBTQ and Sexuality Studies in Health.** These courses focus on sexual minority health and the contributions of feminist scholarship and queer theory as applied to the development of sexual identities, understandings of sexual health, and the experiences of LGBTQ people with healthcare delivery, health related policies, and social justice movements, as well as the history of

sexuality more generally.

- WGS 239 (WOMENSTD 239) / AMCULT 239: Gender, Sexuality, and Health in America
 - WGS 305 (WOMENSTD 305) / ALA 306: Interdisciplinary & Intersectional LGBTQ Health
 - WGS 314 (WOMENSTD 314) / ENGLISH 314: Gender and Sexuality Studies in Literature, *section titled "The Culture of AIDS"*
 - WGS 348 (WOMENSTD 348) / SOC 345: Sociology of Sexualities
 - WGS 352 (WOMENSTD 352) / ASIAN 352: Gender, Sex & Power in Pre-Modern China (F19)
 - WGS 394 (WOMENSTD 394) / PSYCH 394: Sex, Sexuality, and Public Policy
 - WGS 407 (WOMENSTD 407): Intersexualities
 - WGS 432 (WOMENSTD 432): Advanced Topics in Gender & Health, *sections titled "Diagnosis, Sex & Society" (only if taken Winter 2019 or later) or "LGBTQ Reproductive Health" (only if taken Fall 2020 or later)*
 - WGS 449 (WOMENSTD 449) / SOC 445: Diagnosis, Sex & Society
 - WGS 452 (WOMENSTD 452) / PSYCH 414: Sexuality and Science
 - WGS 494 (WOMENSTD 494) / PSYCH 494: Adolescent Sexuality
 - SOC 495: Topics in Sociology, *section titled "Diagnosis, Sex & Society"*
2. **Critical Race and Ethnic Studies in Gender and Health.** These courses will rely on a feminist perspective to examine how the intersections of gender, race, and ethnicity (and other salient categories of identity) impact health-related issues (e.g., conceptualizations of disease and well-being, social disparities in health and healthcare seeking, relations between healthcare providers and patients) with a primary focus on the United States.
- WGS 233 (WOMENSTD 233) / AMCULT 233: Genes and Society: Comparative and International Perspectives
 - WGS 239 (WOMENSTD 239) / AMCULT 239: Gender, Sexuality, and Health in America
 - WGS 291 (WOMENSTD 291) / PSYCH 291: Introduction to Psychology of Women and Gender
 - WGS 305 (WOMENSTD 305) / ALA 306: Interdisciplinary & Intersectional LGBTQ Health
 - WGS 341: Topics in LGBTQ Studies, *section titled "Black Queer Histories"*
 - WGS 343 (WOMENSTD 343): Special Topics in Gender, Race, and Ethnicity in the U.S. (*certain topics*)
 - WGS 356 (WOMENSTD 356) / AMCULT 331 / HISTORY 356: Health in America: Patterns, Experiences, and Inequalities
 - WGS 365 (WOMENSTD 365) / HISTORY 365 / AMCULT 331: Critical Race & Ethnic Studies in Health (W19)
 - WGS 392/ AAS 392 / AMCULT 392: Mental Health in U.S
 - WGS 443 (WOMENSTD 443) / AAS 443: Pedagogy of Empowerment: Activism in Race, Gender, and Health

3. **Gender and Health in Bioscience.** These courses present students with knowledge about basic biological processes, pertaining to healthy developmental periods, life transitions, or particular illnesses, in combination with critical feminist examinations about the process of conducting research in the biological sciences and the applications and societal impact of such work.
- WGS 233 (WOMENSTD 233) / AMCULT 233: Genes and Society: Comparative and International Perspectives
 - WGS 296 (WOMENSTD 296) / HISTORY / PSYCH 296: Gender, Sex Differences, and Addiction: Girls Gone Wild
 - WGS 300 (WOMENSTD 300): Men's Health
 - WGS 342 (WOMENSTD 342): Special Topics in Gender and Health, *section titled "Biomedical Knowledge: Behavior, Science and Gender" (only if elected WN20 or later)*
 - WGS 400 (WOMENSTD 400): Women's Reproductive Health
 - WGS 407 (WOMENSTD 407): Intersexualities
 - WGS 432 (WOMENSTD 432): Advanced Topics in Gender and Health, *section titled "Gender and Contested Illness" (only if elected WN20 or later)*
 - WGS 452 (WOMENSTD 452) / PSYCH 414: Sexuality and Science
4. **Gender and Health in Global, Transnational, or Historical Perspectives.** In this thematic area, one set of courses offers a comparative cross-cultural perspective on health-related phenomena by relying upon feminist theories and global feminisms to place topics of study in a global, transnational context. Another set of courses provides students with the comparative vision promoted through in-depth understanding of the rich and complex historical background of many current health-related issues.
- WGS 212 (WOMENSTD 212) / NURS 225: Global Perspectives on the HIV and AIDS Epidemic
 - WGS 233 (WOMENSTD 233) / AMCULT 233: Genes and Society: Comparative and International Perspectives
 - WGS 239 (WOMENSTD 239) / AMCULT 239: Gender, Sexuality, and Health in America
 - WGS 242 (WOMENSTD 242) / AMCULT 242: Gender and Violence in a Global Context
 - WGS 296 (WOMENSTD 296) / HISTORY / PSYCH 296: Gender, Sex Differences, and Addiction: Girls Gone Wild
 - WGS 307 (WOMENSTD 307) / ANTHRCUL / RCSSCI 327: Critical Theory in Medicine and Healing
 - WGS 312: Queering U.S. Immigration History
 - WGS 324 (WOMENSTD 324) / ANTHRCUL 325: Childbirth & Culture
 - WGS 328 (WOMENSTD 328) / AAS 328: Women, Agency and Sexual Safety
 - WGS 342 (WOMENSTD 342): Topics in Gender & Health, *section titled "Histories of Women, Medicine and Reproduction" (F17) or "Biomedical Knowledge: Behavior, Science and Gender"*
 - WGS 345 (WOMENSTD 345): Topics in Gender in a Global Context, *section titled "Sexual Violence and the State" (F17)*

- WGS 352 (WOMENSTD 352) / ASIAN 352: Gender, Sex & Power in Pre-Modern China (F19)
- WGS 356 (WOMENSTD 356) / AMCULT 331 / HISTORY 356: Health in America: Patterns, Experiences, and Inequalities
- WGS 365 (WOMENSTD 365) / AAS 365: Global Perspectives on Gender, Health, and Reproduction
- WGS 377: Topics in Gender, *section titled "In Sickness and in Health: Medical Anthropologies of Kinship, Relatedness, and the Human"*
- WGS 408
- WGS 432 (WOMENSTD 432): Advanced Topics in Gender and Health, *sections titled "Introduction to Global Health" or "Gender and Mental Health in the 19th Century" (F16) or "Women, Gender and Health in E Asia: Historical and Contemporary Perspectives" (only if elected WN20 or later)*
- WOMENSTD 438: Gender, Health, and Well-being in Africa
- NURS 420: Introduction to Global Health: Issues and Challenges

II. Gender and Health Electives. *Electives must bring the total number of credits in the major up to 27 (excluding cognates). Select at least three courses.*

- Any of the courses in “thematic areas” section
- WGS 225 (WOMENSTD 225) / PSYCH 225: Psychology of Human Sexuality
- WGS 291 (WOMENSTD 291) / PSYCH 291: Introduction to the Psychology of Women and Gender
- WGS 313 (WOMENSTD 313): Special Topics in Gender and the Humanities, *sections titled "Gender, Autobiography and the Medical Body", "Disability Culture" or "Women and Well-Being in Literature" (only if elected WN 20 or later)*
- WGS 342 (WOMENSTD 342): Special Topics in Gender and Health
- WGS 402 (WOMENSTD 402): Gender and Health Policy
- WGS 410 (WOMENSTD 410): Reproductive Justice: Legal and Ethical Issues
- WGS 421 (WOMENSTD 421) / SM 421: Gender and Sport
- WGS 432 (WOMENSTD 432): Advanced Topics in Gender and Health, *sections titled "Movements for Sexual and Reproductive Justice", "Introduction to Global Health"*
- ENGLISH 313: Topics in Literary Studies, *section titled "Gender, Autobiography and the Medical Body"*
- ENGLISH 317: Literature and Culture, *section titled "Disability Culture"*

III. Gender, Culture and Representation Requirement. One of the four thematic area courses or one of the elective courses must be a course that addresses “gender, culture and representation” on a health-related topic.

- ENGLISH 317: Literature and Culture, *section titled "Disability Culture"*
- WGS 233 (WOMENSTD 233) / AMCULT 233: Genes and Society: Comparative and International Perspectives
- WGS 239 (WOMENSTD 239) / AMCULT 239: Gender, Sexuality, and Health in America
- WGS 296 (WOMENSTD 296) / HISTORY / PSYCH 296: Gender, Sex

- Differences, and Addiction: Girls Gone Wild
- WGS 313 (WOMENSTD 313): Special Topics in Gender and the Humanities, *sections titled "Gender, Autobiography and the Medical Body", "Disability Culture", "Gender and Health in Literature" (W19), or "Women and Well-Being in Literature" (only if elected WN 20 or later)*
- WGS 314 (WOMENSTD 314) / ENGLISH 314: Gender and Sexuality Studies in Literature, *section titled "The Culture of AIDS"*
- WGS 342 (WOMENSTD 342): Topics in Gender & Health, *section titled "Histories of Women, Medicine and Reproduction" (F17)*
- WGS 352 (WOMENSTD 352) / ASIAN 352: Gender, Sex & Power in Pre-Modern China (F19)
- WGS 392/ AAS 392 / AMCULT 392: Mental Health in U.S
- WGS 408
- WGS 432 (WOMENSTD 432): Advanced Topics in Gender & Health, *section titled "Race, Gender, and Mental Health in the 19th Century" (F16); "Women, Gender and Health in E Asia: Historical and Contemporary Perspectives" (only if elected WN20 or later); or " LGBTQ Reproductive Health" (only if elected FA20 or later)*

IV. **Cognate Requirement.** Two courses (for a total of six credits), neither in WGS (or WOMENSTD), nor cross-listed, are required. In order to compliment the interdisciplinary major in Gender and Health with training in a single discipline, students should take six cognate credits within the same discipline. Cognate courses should not be courses on gender and health but should provide supporting skills or contexts for the study of gender and health. Cognates are by Women's and Gender Studies advisor approval. A preliminary list of suggested cognate courses follows:

- AMCULT 284 / HISTORY 284: Sickness and Health in Society: 1492 to the Present
- AMCULT 365: AIDS and America
- ANATOMY / PHYSIOL 541 / PSYCH 532: Mammalian Reproductive Physiology
- ANTHRBIO / ANTHRCUL 342: Nature/Culture Now!
- ANTHRCUL / ANTHRBIO 342: Nature/Culture Now!
- ANTHRCUL / HISTART 354: Art, Science, and Technology
- ANTHRCUL 437: The Anthropology of Death, Dying and the Afterlife
- ANTHRCUL 447: Culture, Racism, and Human Nature
- CHEM 210: Structure and Reactivity I
- CHEM 215: Structure and Reactivity II
- HISTART / ANTHRCUL 354: Art, Science, and Technology
- HISTORY 234: History of Medicine in the Western World from the 18th Century to the Present
- HISTORY / AMCULT 284: Sickness and Health in Society: 1492 to the Present
- HISTORY 285 / RCSSCI 275: Science, Technology, Medicine, and Society
- HMP / PUBHLTH 200 / PUBPOL 210: Health and Society: Introduction to Public Health
- PHYSIOL / ANATOMY 541 / PSYCH 532: Mammalian Reproductive Physiology
- PSYCH 337: Hormones and Behavior
- PSYCH 532 / PHYSIOL / ANATOMY 541: Mammalian Reproductive Physiology
- PUBHLTH / HMP 200 / PUBPOL 210: Health and Society: Introduction to Public

Health

- PUBHLTH 305: The Environment and Human Health
- PUBHLTH 350: Global Public Health: Challenges and Transformations
- PUBPOL 210/ PUBHLTH / HMP 200: Health and Society: Introduction to Public Health
- RCSSCI 275 / HISTORY 285: Science, Technology, Medicine, and Society

Constraints

A maximum of six credits of WGS (or WOMENSTD) independent study may be taken towards the major – excluding independent study credits that meet the practicum requirement.

Residency

For completion of the major, 14 credits of gender and health courses must be taken in residence on the Ann Arbor campus, including WGS 440 (WOMENSTD 440): Senior Capstone and not including cognates. "In-residence" means courses elected on the Ann Arbor campus or at off-campus sites directed by Ann Arbor faculty. This includes STDABRD, Camp Davis, Biological Station, Michigan-in-Washington.

Distribution Policy

No course used to fulfill a major requirement may be used toward the **LSA Distribution Requirement**. In addition, courses in the WGS or WOMENSTD subject area may not be used toward the Distribution Requirement.

Honors

Gender and Health majors who maintain an overall GPA of at least 3.4 through the first term of their junior year and a 3.5 in their Gender and Health courses will be eligible to complete their degree with a Gender and Health Honors designation. Most importantly, Gender and Health majors who wish to pursue an Honors Thesis will have an opportunity to complete a comprehensive, original independent project under the guidance of a Women's and Gender Studies faculty member with expertise in topics related to gender and health.

Student elect:

- WGS 389 (WOMENSTD 389): Junior Honors Seminar (may also count as an elective)

and the following additional courses:

- WGS 441 (WOMENSTD 441): Senior Honors Seminar 1
- WGS 442 (WOMENSTD 442): Senior Honors Seminar 2
- WGS 490 (WOMENSTD 490): Honors Thesis
- WGS 491 (WOMENSTD 491): Honors Thesis

Gender and Health Minor

This minor allows students to develop a minor through courses that focus on gender and health across a variety of disciplinary perspectives. At the same time, this minor is designed to focus students' studies of gender and health from a feminist perspective. The minor provides an opportunity for students to develop their skills in critical analysis as they explore how the social category of gender and conceptualizations of health, health care, and health policy intersect.

Coursework on a range of topics allows students to engage critically with the biomedical model of health in order to broaden and deepen their understanding of what constitutes health by exploring, for example, the relationship between health and disease. In all courses, students will be challenged to consider the implications of a critical gender analysis of health for health care delivery, the health care professions, and health policy domestically and transnationally.

Effective Winter 2023

Exclusions:

Gender and Health majors may not minor in Gender and Health.

Advising

Students wishing to pursue a minor in Women's and Gender Studies must develop a specific plan for its completion in consultation with the department's designated advisor. Advising appointments are made online. To make an advising appointment, please see the bottom left-hand corner of the Women's and Gender Studies website main page: [/lsa.umich.edu/women/undergraduates/advising](https://lsa.umich.edu/women/undergraduates/advising).

Prerequisites

None.

Requirements

Minimum Credits: 15

Five courses totaling at least 15 credits, to be chosen from the following categories as stated:

1. **Foundational Course:** WGS 220 (WOMENSTD) /NURS 220: Perspectives in Women's Health

2. **Electives:** Four electives from the listing below (at least two courses must be upper-level courses, with at least one at the 400-level). One of these courses must be an upper-level seminar and one must be from a transnational, global, or historical perspective as indicated below. (A single course may satisfy more than one of these requirements).
 - WOMENSTD 212 / HS 225: Global Perspectives on the HIV and AIDS Epidemic
 - WGS 222/ENGLISH 212: Narratives of Girlhood
 - WGS 225 (WOMENSTD) / PSYCH 225: Psychology of Human Sexuality
 - WGS 233 (WOMENSTD) / AMCULT 233: Genes and Society
 - WGS 239 (WOMENSTD) / AMCULT 239: Gender, Sexuality, and Health in America
 - WGS 242 (WOMENSTD) / AMCULT 242: Gender Violence in a Global Context
 - WGS 252: Special Topics, *section titled "Feminist Research Methods"*
 - WGS 291 (WOMENSTD) / PSYCH 291: Introduction to the Psychology of Women and Gender
 - WGS 296 (WOMENSTD) / HISTORY / PSYCH 296: Gender, Sex Differences, and Addiction: Girls Gone Wild
 - WGS 300 (WOMENSTD 300): Men's Health
 - WGS 305 (WOMENSTD 305) / ALA 306: Interdisciplinary & Intersectional LGBTQ Health
 - WGS 307 (WOMENSTD 307) / ANTHRCUL / RCSSCI 327: Critical Theory in Medicine and Healing

- WOMENSTD 320: Gender and Mental Health
- WGS 324 (WOMENSTD 324) / ANTHRCUL 325: Childbirth and Culture
- WGS 328 (WOMENSTD) / AAS 328: Women, Agency and Sexual Safety
- WGS 342 (WOMENSTD 342): Special Topics in Gender and Health
- WGS 356 (WOMENSTD) / HISTORY 356 / AMCULT 331: Health in America: Patterns, Experiences, Inequalities
- WGS 365 (WOMENSTD) / AAS 365: Global Perspectives on Gender, Health, and Reproduction
- WGS 377: Topics in Gender and Social Science, section titled "In Sickness and in Health: Medical Anthropologies of Kinship, Relatedness, and the Human"
- WGS 394 (WOMENSTD) / PSYCH 394: Adolescent Sexuality
- WGS 400 (WOMENSTD 400): Women's Reproductive Health
- WGS 402 (WOMENSTD 402): Gender and Health Policy
- WOMENSTD / HS 404: Gender Based Violence: From Theory to Action
- WGS 405 (WOMENSTD 405): Pharma, Pills, & Policy
- WGS 407 (WOMENSTD 407): Intersexualities
- WGS 408 Gender and Health in East Asia: Historical and Contemporary Perspectives
- WGS 410 (WOMENSTD 410): Reproductive Justice: Legal and Ethical Issues
- WGS 412 (WOMENSTD 412): Reproductive Health Policy in a Global Context
- WGS (WOMENSTD) / SM 421: Gender and Sport
- WGS 432 (WOMENSTD 432): Advanced Topics in Gender and Health
- WOMENSTD 438: Gender, Health and Well-Being in Africa
- WGS 443 (WOMENSTD) / AAS 443: Pedagogy of Empowerment: Activism in Race, Gender, and Health.
- WGS 452 (WOMENSTD 452) / PSYCH 414: Sexuality and Science
- WGS 494 (WOMENSTD) / PSYCH 494: Adolescent Sexuality
- WGS 498 (WOMENSTD) / PSYCH 498: Gender and the Individual
- WGS 499 (WOMENSTD) / PSYCH 499: Psychology of Women

Upper-Level Seminars:

- WGS 305 / ALA 306: Interdisciplinary and Intersectional LGBTQ Health (*only if elected FA19 or later*)
- WGS 306: Maternal and Infant Health in Latin American History (*only if elected WN24 or later*)
- WGS 310: Health, Gender, and Performance (*only if elected FA23 or later*)
- WGS 313 (WOMENSTD 313): Topics in Gender & the Humanities, *section titled "Gender and Health in Literature"* (WN19)
- WGS 319 (WOMENSTD 319): Race, Class, and Reproductive Health
- WGS 328 (WOMENSTD 328) / AAS 328: Women, Agency and Sexual Safety
- WGS 330 (WOMENSTD 330): Feminist Thought (*only if taken FA20 or later*)
- WGS 331 (WOMENSTD 331): Feminist Theoretical Perspectives in Gender and Health
- WGS 333: Biomedical Knowledge, Science, and Power (*only if elected SP23 or later*)
- WGS 342 (WOMENSTD 342): Special Topics in Gender and Health
- WGS 343: Special Topics in Gender, Race, and Ethnicity in the U.S., *section titled "The Theory and Politics of Motherhood"* (*only if elected WN24 or later*)
- WGS 345 (WOMENSTD 345): Special Topics in Gender in a Global Context, *section titled "Sexual Violence and the State"*
- WGS 350 (WOMENSTD 350): Nonprofit Management, Community Engagement, and

Feminist Practice

- WGS 351 (WOMENSTD 351): Leading Feminism
- WGS 352 (WOMENSTD) / ASIAN 352: Gender, Sex & Power in Pre-Modern China (F19)
- WGS 353: Helping Hands: The Science of Doulas
- WGS 365 (WOMENSTD) / AAS 365: Global Perspectives on Gender, Health, and Reproduction
- WGS 374 (WOMENSTD 374): Gender, Race and Incarceration (SP19)
- WGS 377: Topics in Gender and Social Science, section titled "In Sickness and in Health: Medical Anthropologies of Kinship, Relatedness, and the Human"
- WGS 405 (WOMENSTD 405): Pharma, Pills, and Policy
- WGS 407 (WOMENSTD 407): Intersexualities
- WGS 408 Gender and Health in East Asia: Historical and Contemporary Perspectives
- WGS 410 (WOMENSTD 410): Reproductive Justice: Legal and Ethical Issues
- WGS 412 (WOMENSTD 412): Reproductive Health Policy in a Global Context
- WGS 415: LGBTQ Reproduction (*only if elected FA23 or later*)
- WOMENSTD 438: Gender, Health, and Well-being in Africa
- WGS 443 (WOMENSTD) / AAS 443: Pedagogy of Empowerment: Activism in Race, Gender, and Health
- WGS 449 (WOMENSTD 449) / SOC 445: Diagnosis, Sex, and Society
- WGS 484: Science and Gender (*only if elected FA23 or later*)
- WGS 494 (WOMENSTD) / PSYCH 494: Adolescent Sexuality
- POLSCI 495: Undergraduate Seminar in Political Theory, *section titled "Disability: A Democratic Dilemma"*
- NURS 420: Introduction to Global Health: Issues and Challenges
- SOC 225: Project Community: various specifically approved topics - see department advisor

Courses with a transnational, global, historical perspective:

- NURS 420: Introduction to Global Health: Issues and Challenges
- WGS 212 / HS 225: Global Perspectives on the HIV and AIDS Epidemic (*only if taken FA20 or later*)
- WGS 213: Topics in Gender and the Humanities, *section titled, "War, Women, and Gender" or "War, Gender, Masculinity, Violence"*
- WGS 233 / AMCULT 233 : Genes and Society
- WGS 296 / HISTORY / PSYCH 296: Gender, Sex Differences, and Addiction: Girls Gone Wild
- WGS 306: Maternal and Infant Health in Latin American History (*only if elected WN24 or later*)
- WGS 319: Race, Class, and Reproductive Health (W18)
- WGS 324 / ANTHRCUL 325: Childbirth and Culture
- WGS 328 / AAS 328: Women, Agency and Sexual Safety
- WGS 333: Biomedical Knowledge, Science, and Power
- WGS 345: Special Topics in Gender in a Global Context, *section titled "Sexual Violence and the State" (only if elected FA19 or later)*
- WGS 352 / ASIAN 352: Gender, Sex & Power in Pre-Modern China (F19)
- WGS 365 / AAS 365: Global Perspectives on Gender, Health, and Reproduction
- WGS 377: Topics in Gender and Social Science, *section titled "In Sickness and in Health:*

Medical Anthropologies of Kinship, Relatedness, and the Human"

- AAS 392 / AMCULT 392 / WGS 392: Mental Health in U.S
- WGS 408 Gender and Health in East Asia: Historical and Contemporary Perspectives
- WGS 412 : Reproductive Health Policy in a Global Context
- WGS 432 : Advanced Topics in Gender and Health, *sections titled "Race, Gender and Mental Health in the 19th Century" or "Introduction to Global Health" (F18) or "Special Topics in Gender and Health" (only if elected WN20 or later), "Biomedical Knowledge: Behavior, Science and Gender" (only if elected WN20 or later), or Introduction to Global Health: Issues & Challenges (only if elected FA19 or later)*
- WGS 435: Advanced Topics in Gender in a Global Context, *section titled "Gender, Sexuality, and International Human Rights Law" (only if elected WN20 or later)*
- WOMENSTD 438: Gender, Health, and Well-being in Africa

Gender and Health (Minor) (Fall 2016 - Fall 2022)

Effective Fall 2016

Exclusions:

Gender and Health majors may not minor in Gender and Health.

Advising

Students wishing to pursue a minor in Women's and Gender Studies must develop a specific plan for its completion in consultation with the department's designated advisor. Advising appointments are made online. To make an advising appointment, please see the bottom left-hand corner of the Women's and Gender Studies website main page: [/lsa.umich.edu/women/undergraduates/advising](https://lsa.umich.edu/women/undergraduates/advising).

Prerequisites

None.

Requirements

Minimum Credits: 15

Five courses totaling at least 15 credits, to be chosen from the following categories as stated:

1. **Foundational Course:** WGS 220 (WOMENSTD) /NURS 220: Perspectives in Women's Health
2. **Electives:** Four electives from the listing below (at least two courses must be upper-level courses, with at least one at the 400-level). One of these courses must be an upper-level seminar and one must be from a transnational, global, or historical perspective as indicated below. (A single course may satisfy more than one of these requirements).
 - WOMENSTD 212 / HS 225: Global Perspectives on the HIV and AIDS Epidemic
 - WGS 225 (WOMENSTD) / PSYCH 225: Psychology of Human Sexuality
 - WGS 233 (WOMENSTD) / AMCULT 233: Genes and Society
 - WGS 239 (WOMENSTD) / AMCULT 239: Gender, Sexuality, and Health in America
 - WGS 242 (WOMENSTD) / AMCULT 242: Gender Violence in a Global Context
 - WGS 291 (WOMENSTD) / PSYCH 291: Introduction to the Psychology of Women and Gender
 - WGS 296 (WOMENSTD) / HISTORY / PSYCH 296: Gender, Sex Differences, and

Addiction: Girls Gone Wild

- WGS 300 (WOMENSTD 300): Men's Health
- WGS 305 (WOMENSTD 305) / ALA 306: Interdisciplinary & Intersectional LGBTQ Health
- WGS 307 (WOMENSTD 307) / ANTHRCUL / RCSSCI 327: Critical Theory in Medicine and Healing
- WOMENSTD 320: Gender and Mental Health
- WGS 324 (WOMENSTD 324) / ANTHRCUL 325: Childbirth and Culture
- WGS 328 (WOMENSTD) / AAS 328: Women, Agency and Sexual Safety
- WGS 342 (WOMENSTD 342): Special Topics in Gender and Health
- WGS 356 (WOMENSTD) / HISTORY 356 / AMCULT 331: Health in America: Patterns, Experiences, Inequalities
- WGS 365 (WOMENSTD) / AAS 365: Global Perspectives on Gender, Health, and Reproduction
- WGS 377: Topics in Gender and Social Science, section titled "In Sickness and in Health: Medical Anthropologies of Kinship, Relatedness, and the Human"
- WGS 394 (WOMENSTD) / PSYCH 394: Adolescent Sexuality
- WGS 400 (WOMENSTD 400): Women's Reproductive Health
- WGS 402 (WOMENSTD 402): Gender and Health Policy
- WOMENSTD / HS 404: Gender Based Violence: From Theory to Action
- WGS 405 (WOMENSTD 405): Pharma, Pills, & Policy
- WGS 407 (WOMENSTD 407): Intersexualities
- WGS 408 Gender and Health in East Asia: Historical and Contemporary Perspectives
- WGS 410 (WOMENSTD 410): Reproductive Justice: Legal and Ethical Issues
- WGS 412 (WOMENSTD 412): Reproductive Health Policy in a Global Context
- WGS (WOMENSTD) / SM 421: Gender and Sport
- WGS 432 (WOMENSTD 432): Advanced Topics in Gender and Health
- WOMENSTD 438: Gender, Health and Well-Being in Africa
- WGS 443 (WOMENSTD) / AAS 443: Pedagogy of Empowerment: Activism in Race, Gender, and Health.
- WGS 452 (WOMENSTD 452) / PSYCH 414: Sexuality and Science
- WGS 494 (WOMENSTD) / PSYCH 494: Adolescent Sexuality
- WGS 498 (WOMENSTD) / PSYCH 498: Gender and the Individual
- WGS 499 (WOMENSTD) / PSYCH 499: Psychology of Women

Upper-Level Seminars:

- WGS 305 / ALA 306: Interdisciplinary and Intersectional LGBTQ Health (*only if elected FA19 or later*)
- WGS 313 (WOMENSTD 313): Topics in Gender & the Humanities, *section titled "Gender and Health in Literature"* (WN19)
- WGS 319 (WOMENSTD 319): Race, Class, and Reproductive Health
- WGS 328 (WOMENSTD 328) / AAS 328: Women, Agency and Sexual Safety
- WGS 330 (WOMENSTD 330): Feminist Thought (*only if taken FA20 or later*)
- WGS 331 (WOMENSTD 331): Feminist Theoretical Perspectives in Gender and Health
- WGS 342 (WOMENSTD 342): Special Topics in Gender and Health
- WGS 345 (WOMENSTD 345): Special Topics in Gender in a Global Context, *section titled "Sexual Violence and the State"*
- WGS 350 (WOMENSTD 350): Nonprofit Management, Community Engagement, and

Feminist Practice

- WGS 351 (WOMENSTD 351): Leading Feminism
- WGS 352 (WOMENSTD) / ASIAN 352: Gender, Sex & Power in Pre-Modern China (F19)
- WGS 365 (WOMENSTD) / AAS 365: Global Perspectives on Gender, Health, and Reproduction
- WGS 374 (WOMENSTD 374): Gender, Race and Incarceration (SP19)
- WGS 377: Topics in Gender and Social Science, section titled "In Sickness and in Health: Medical Anthropologies of Kinship, Relatedness, and the Human"
- WGS 405 (WOMENSTD 405): Pharma, Pills, and Policy
- WGS 407 (WOMENSTD 407): Intersexualities
- WGS 408 Gender and Health in East Asia: Historical and Contemporary Perspectives
- WGS 410 (WOMENSTD 410): Reproductive Justice: Legal and Ethical Issues
- WGS 412 (WOMENSTD 412): Reproductive Health Policy in a Global Context
- WGS 313: Special Topics in Gender and the Humanities, *section titled "Women and Well-Being in Literature" (FA19 or later)*
- WOMENSTD 438: Gender, Health, and Well-being in Africa
- WGS 443 (WOMENSTD) / AAS 443: Pedagogy of Empowerment: Activism in Race, Gender, and Health
- WGS 449 (WOMENSTD 449) / SOC 445: Diagnosis, Sex, and Society
- WGS 494 (WOMENSTD) / PSYCH 494: Adolescent Sexuality
- NURS 420: Introduction to Global Health: Issues and Challenges
- SOC 225: Project Community: various specifically approved topics - see department advisor

Courses with a transnational, global, historical perspective:

- NURS 420: Introduction to Global Health: Issues and Challenges
- WGS 212 / HS 225: Global Perspectives on the HIV and AIDS Epidemic (*only if taken FA20 or later*)
- WGS 213: Topics in Gender and the Humanities, *section titled, "War, Women, and Gender"*
- WGS 233 / AMCULT 233 : Genes and Society
- WGS 296 / HISTORY / PSYCH 296: Gender, Sex Differences, and Addiction: Girls Gone Wild
- WGS 319: Race, Class, and Reproductive Health (W18)
- WGS 324 / ANTHRCUL 325: Childbirth and Culture
- WGS 328 / AAS 328: Women, Agency and Sexual Safety
- WGS 345: Special Topics in Gender in a Global Context, *section titled "Sexual Violence and the State" (only if elected FA19 or later)*
- WGS 352 / ASIAN 352: Gender, Sex & Power in Pre-Modern China (F19)
- WGS 365 / AAS 365: Global Perspectives on Gender, Health, and Reproduction
- WGS 377: Topics in Gender and Social Science, *section titled "In Sickness and in Health: Medical Anthropologies of Kinship, Relatedness, and the Human"*
- AAS 392 / AMCULT 392 / WGS 392: Mental Health in U.S
- WGS 408 Gender and Health in East Asia: Historical and Contemporary Perspectives
- WGS 412 : Reproductive Health Policy in a Global Context
- WGS 432 : Advanced Topics in Gender and Health, *sections titled "Race, Gender and Mental Health in the 19th Century" or "Introduction to Global Health" (F18) or "Special*

Topics in Gender and Health" (only if elected WN20 or later), "Biomedical Knowledge: Behavior, Science and Gender" (only if elected WN20 or later), or Introduction to Global Health: Issues & Challenges (only if elected FA19 or later)

- WGS 435: Advanced Topics in Gender in a Global Context, *section titled "Gender, Sexuality, and International Human Rights Law" (only if elected WN20 or later)*
- WOMENSTD 438: Gender, Health, and Well-being in Africa

Gender, Race, and Nation Minor

This minor is designed to introduce students to a range of feminist scholarship on the intersection of gender with race and ethnicity and with nation. Courses examine race and ethnicity in contexts that are local, transnational, or both. They analyze the ways in which gender, race, and nation are constituted with and against each other, and how these constructions operate in discourses, institutions, politics, societies, and individual lives past and present. The minor can be tailored toward an international or domestic emphasis, but topics are likely to include the changing boundaries of race, gender, and nation; differential relations among nations; histories of imperialism, colonialism, and globalization; and postcolonial resistance and theory.

Effective Winter 2014

Advising

Students wishing to pursue a minor in Women's Studies must develop a specific plan for its completion in consultation with the department's designated advisor. Advising appointments are made online. To make an advising appointment, please see the bottom left-hand corner of the Women's Studies website main page: [/lsa.umich.edu/women/undergraduates/advising](https://lsa.umich.edu/women/undergraduates/advising).

Prerequisites

None.

Requirements

Minimum Credits: 15

Five courses totaling at least 15 credits, to be chosen from the following categories as stated:

1. **Foundational Course.** One course chosen from:
 - WGS 240 (WOMENSTD 240) / AMCULT 240: Introduction to Women's and Gender Studies
 - WGS 250 (WOMENSTD 250): Gender, Race, & Nation
2. **Feminist Theory.** One course chosen from:
 - WGS 330 (WOMENSTD 330): Feminist Thought
 - WGS 422 (WOMENSTD 422) / POLSCI 401: Feminist Political Theory
 - WGS 455 (WOMENSTD 455) / ANTHRCUL 455: Feminist Theory in Anthropology
3. **Electives.** Three electives (9 credits) that focus on women in specific racial and ethnic groups (At least two courses must be upper-level courses, with at least one at the 400-level), chosen from:
 - AMCULT 498: Capstone Seminar, *section titled, "Skin Deep: Race and Beauty in American Culture" (Only if elected WN17 or later)*
 - NURS 420: Introduction to Global Health: Issues and Challenges

- WOMENSTD / ANTHRCUL / NURS 212: Global HIV/AIDS Epidemic
- WGS 215 (WOMENSTD 215) / HISTART / ARCH 216: Contested Spaces: Art, Architecture, Politics (*Only if elected FA20 or later*)
- WGS 220 (WOMENSTD 220) / NURS 220: Perspectives in Women's Health
- WGS 222/ENGLISH 212: Narratives of Girlhood (*Only if elected WN23 or later*)
- WGS 233 (WOMENSTD 233) / AMCULT 233: Genes and Society
- WGS 235 (WOMENSTD 235) / AMCULT / ARABAM 235: Harems to Terrorists: Representing the Modern Middle East in Hollywood Cinema
- WGS 239 (WOMENSTD 239) / AMCULT 239: Gender, Sexuality, and Health in America
- WGS 242 (WOMENSTD 242) / AMCULT 242: Gender Violence in a Global Context
- WGS 243 (WOMENSTD 243) / AMCULT / LATINOAM 243: Latinas in the U.S.
- WGS 258: Interdisciplinary Topics in WGS, *section titled "Black Women in Popular Culture"*
- WGS 270 (WOMENSTD 270) / SOC 270: Gender and the Law
- WGS 291 (WOMENSTD 291) / PSYCH 291: Introduction to Psychology of Women and Gender
- WGS 293 (WOMENSTD 293) / AMCULT 293: 20th-Century Writing by Women of Color
- WGS 297 (WOMENSTD 297) / PSYCH 297: Promoting Equity and Inclusion in the University and the Workplace (*Only if elected FA17 or later*)
- WGS 301 (WOMENSTD 301) / ASIAN 301: Writing Japanese Women
- WGS 302 (WOMENSTD 302) / HISTART / ANTHRCUL 302: Sex and Gender in Japan
- WGS 304 (WOMENSTD 304) / AAS 304: Gender and Immigration
- WOMENSTD 305 / ALA 306: Interdisciplinary & Intersectional LGBTQ Health
- WGS 306 (WOMENSTD 306) / AAS 306: Women of Color and Feminism
- WGS 307 (WOMENSTD 307) / ANTHRCUL / RCSSCI 327: Critical Theory in Medicine and Healing
- WGS 309 (WOMENSTD 309) / PSYCH 309: Psychology of Social Change: Gender and Global Feminisms (*Only if elected WN19 or later*)
- WGS 312 (WOMENSTD 312): Queering US Immigration History
- WGS 318 (WOMENSTD 318): Women, Politics, and Society in India
- WGS 321 (WOMENSTD 321): Women's Lives in 20th-Century China
- WGS 322 (WOMENSTD 322): Black Feminist Approaches to Health (*Only if elected FA18 or later*)
- WGS 323 (WOMENSTD 323) / AAS 323 / HISTORY 388: Black Feminist Thought and Practice
- WGS 324 (WOMENSTD 324) / ANTHRCUL 325: Anthropology of Childbirth
- WGS 327 (WOMENSTD 327) / HISTORY 327: History of Sexuality
- WGS 328 (WOMENSTD 328) / AAS 328: Women, Agency, and Sexual Safety
- WGS 329 (WOMENSTD 329) / AMCULT 329: Native American Feminism
- WGS 332 (WOMENSTD 332) / ASIAN 342: Gender and Power in Southeast Asia
- WGS 335 (WOMENSTD 335): Gender and Globalization
- WGS 336 (WOMENSTD 336) / AAS / HISTORY 336: Black Women in America
- WGS 337 (WOMENSTD 337) / AAS / HISTORY 337: Black Women in the U.S.
- WGS 341: Topics in LGBTQ Studies, *section titled "Black Queer Histories"*

- WGS 343 (WOMENSTD 343): Special Topics in Gender and Ethnicity in the U.S.
- WGS 345 (WOMENSTD 345): Special Topics in Gender in a Global Context
- WGS 352 (WOMENSTD 352) / ASIAN 352: Gender, Sexuality, and Power in Pre-modern China
- WGS 354 (WOMENSTD 354) / AAS / RCHUMS / HONORS 354: Race and Identity in Music
- WGS 356 (WOMENSTD 356) / AMCULT / HISTORY 356: Health in America: Patterns, Experiences, Inequalities
- WGS 357 (WOMENSTD 357): Feminist Practices in a Global Context
- WGS 360 (WOMENSTD 360) / AMCULT 342 / HISTORY 368: History of the Family in the U.S.
- WGS 363 (WOMENSTD 363) / AMCULT / ASIANPAM 363: Asian Pacific American Women
- WGS 365 (WOMENSTD 365) / AAS 365: Global Perspectives on Gender, Health, and Reproduction
- WGS 366 (WOMENSTD 366) / AMCULT 366 / HISTORY 353: Sex and Sexuality in U.S. Popular Culture
- WOMENSTD 368 / AMCULT 368 / MIDEAST 378 / ARABAM 363: Women and War in the Middle East
- WGS 374 (WOMENSTD 374): Gender, Race and Incarceration (*Only if elected SP19 or later*)
- WGS 370 (WOMENSTD 370) / HISTORY 370 / AMCULT 375: Queer Histories of the United States, 1850 to present (*Only if elected FA18 or later*)
- WGS 376 (WOMENSTD 376) / JUDAIC 376: Women and the Bible (*Only if elected WN19 or later*)
- WOMENSTD / AMCULT 378: Violence Against Women of Color
- WGS 381 (WOMENSTD 381) / AAS 381 / ENGLISH 380: Intersections: Fictions and Feminisms of the African Diaspora
- WOMENSTD / AAS 390: Homophobia in the Black World
- AAS 392 / AMCULT 392 / WGS 392: Mental Health in U.S
- WOMENSTD / HISTORY 397 / MIDEAST 387: Religion and Politics in Contemporary Iran (*Only if elected WN19 or later*)
- WGS 408
- WGS 417 (WOMENSTD 417): Race, Gender & Mental Health in the 19th Century (*Only if elected FA18 or later*)
- WGS 425 (WOMENSTD 425) / AMCULT 425: Feminist Practice in Oral History
- WGS 427 (WOMENSTD 427) / AAS / ANTHRCUL 427: African Women
- WGS 431: Advanced Topics in LGBTQ Studies: *section titled, "Feminist and Queer Sex Work"*
- WGS 432 (WOMENSTD 432): Advanced Topics in Gender and Health, *section titled "Race, Gender and Mental Health in the 19th Century" (Only if elected FA16 or later) or "Women, Gender and Health in E Asia: Historical and Contemporary Perspectives" (only if elected WN20 or later)*
- WGS 433 (WOMENSTD 433): Advanced Topics in Gender, Race and Ethnicity in the U.S.
- WGS 434 (WOMENSTD 434): Advanced Topics in Gender, Culture & Representation, *section titled "Race & Beauty in American Culture" (Only if elected WN17 or later)*

- WGS 434 (WOMENSTD 434): Advanced Topics in Gender, Culture & Representation, *section titled "Skin Deep: Race and Beauty in American Culture" (Only if elected FA20 or later)*
- WGS 435 (WOMENSTD 435): Advanced Topics in Gender in a Global Context
- WOMENSTD 438: Gender, Health, and Well-Being in Africa
- WGS 443 (WOMENSTD 443) / AAS 443: Pedagogy of Empowerment: Activism in Race, Gender and Health
- WOMENSTD / HISTORY 448: Gender and the Family in China
- WGS 471 (WOMENSTD 471) / HISTORY 429 / MIDEAST 432 / RELIGION 496: Gender and Sexuality in Pre-Modern Islam
- WOMENSTD 492 / REEES / SOC 490: Women and Islam
- WGS 496 (WOMENSTD 496) / MIDEAST / ISLAM 433: Gender and Representation in the Modern Middle East.

Students may also include:

- WGS 240 (WOMENSTD 240) or WGS 250 (WOMENSTD 250) (when not taken as a foundation course)
- other special topics WGS or WOMENSTD courses on specific racial and ethnic groups approved by the Women's and Gender Studies department.

Bachelor in General Studies

What do you want to learn? That's the question at the heart of the Bachelor in General Studies (B.G.S.) degree. B.G.S. is more than a major. It's an interdisciplinary degree that empowers you to design your own academic plan from the start or make the most of your prior courses and experiences.

B.G.S. students purposefully combine coursework from different fields to craft a unique, meaningful program of study. The flexible curriculum allows students to integrate diverse learning experiences from study abroad, research, internships, and transfer courses. While B.G.S. has always been a student-driven degree, advisors assist with navigation along the way. The B.G.S. degree cultivates skills in interdisciplinary thinking, creative problem-solving, and self-reflection, making it excellent preparation for graduate and professional schools.

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B.G.S. is more than a major. Like a **Bachelor of Arts (B.A.)** or **Bachelor of Science (B.S.)**, B.G.S. is a whole degree. It shares some requirements with the B.A. and B.S., but it differs in essential and exciting ways.

B.G.S. Degree Requirements

Skills: B.G.S students fulfill the following LSA Skills requirements

- **First-Year Writing**
- **Upper-Level Writing**
- **Race & Ethnicity**
- **Quantitative Reasoning**

Interdisciplinary Coursework: Beyond those requirements, B.G.S. gives you the freedom to decide what subjects you want to study based on your interests, needs, and goals.

- Take introductory courses to explore new subjects, build your knowledge, and satisfy prerequisites for future upper-level courses.
- Complete a minimum of 60 upper-level credits from your chosen subjects. Typically students combine courses from 7-9 different subjects, which is what makes the B.G.S. degree truly interdisciplinary. Keep in mind that up to 20 credits from a single subject can count towards the 60 upper-level credit requirement.

Credits and GPA: A B.G.S. student must fulfill LSA's standard **credit requirements** for total credits, LSA credits, graded credits, and in-residence credits. A B.G.S. student must have a minimum cumulative GPA of 2.0 and a minimum GPA of 2.0 in the courses taken for the 60 upper-level credit requirement in order to graduate.

B.G.S. Advising

To explore or declare B.G.S., or for support once you have declared, please make a **general advising appointment**. Click the schedule button, select the General Advising category, and then select "Bachelor in General Studies Degree" as the reason for the appointment.

B.G.S. advisors can help you

- develop your academic plan
- understand B.G.S. and LSA requirements and policies
- explore co-curricular opportunities like study abroad, internships, and research

B.G.S. Commencement

We celebrate the Bachelor in General Studies graduates in an intimate commencement ceremony and reception held once a year during the weekend of the University's Spring Commencement. **Our next commencement celebration will be on May 1, 2025 at 4:00pm.** We welcome B.G.S students who graduate in Fall 2024, Winter 2025, or Summer 2025 term to participate in this commencement ceremony. Invitations with further details will be sent directly to B.G.S. graduates. Contact Dr. Dana Schumacher-Schmidt (danaschu@umich.edu) with any question about B.G.S. Commencement.

Geology Minor

The Geology minor is designed to give students a specialization in geology, which includes the physics and chemistry of the solid Earth. The minor is suitable for students who wish to add a specialization in geology to their natural science degree.

Our innovative and flexible majors provide an interesting path for students to follow on their way to an LSA degree. From our field camp at Camp Davis in Wyoming, to lab work on

campus, Michigan students have an opportunity to explore the geological sciences in exciting ways.

The Department of Earth and Environmental Sciences offers:

- an ***Earth and Environmental Sciences Major*** and an **Honors Plan**
- a **Teacher's Certificate Program**, for prospective science teachers who are candidates for a secondary teaching certificate in earth science and general science; and,
- Academic minors in ***Earth Sciences, Environmental Geology, Geology, Oceanography, and Paleontology***.

Effective Winter 2013

Advising

Students wishing to pursue a minor in the department must develop a specific plan for its completion in consultation with the department's designated advisor. Appointments are scheduled online www.lsa.umich.edu/earth/undergraduate

Prerequisites

None.

Requirements

Minimum Credits: 15

1. **An introductory geology course:** EARTH 116, 119, 120, or 205+206. Students who elect EARTH 119, 120, or 205+206 are strongly encouraged to also enroll in EARTH 118.
2. **Core course.** Choose one or more of: EARTH 305, 310, 314, 315, 351.
3. **Electives:** 311, 380, 417, 418/419, 420, 422, 436 (2 credits max), 440, 442, 449, 467, 483, 494 (one credit max)

German Major

Germany has emerged as the strongest economy in Europe, and the State of Michigan has especially deep economic ties to Germany: Thus German is one of the most important languages for business and engineering. German is also centrally important for gaining a first-hand, fundamental knowledge of the aesthetic, philosophical, and scientific foundations of modern thought. By a wide margin, German is the most frequently required or recommended academic language.

At every level of our language program, we strive to appeal to the cognitive abilities and intellectual curiosity of our students. Our language courses focus systematically on the development of all four basic language skills (listening, speaking, reading, and writing), while emphasizing context and meaning at all levels and in all spheres of the language acquisition process. It is fundamental to our program that all language courses encourage students to explore other world-views and learn to think critically about culture.

The goals for the first two years of language study include increasing the level of proficiency in beginning and intermediate language students and meeting the needs and interests of the

majority of students so that they will find the language requirement stimulating and useful. We believe that language learning is and should be enjoyable and stimulating, and we hope that our courses live up to this. Our special topics courses (GERMAN 232) are meant to provide an introduction to the discourse and substance of various disciplines in German and thus become stepping stones to coursework outside of the German major proper. These special topics include courses on German politics and economics, history, music, art, anthropology, film, engineering, and mathematical and scientific German. Upon completion of the fourth-term course, students are strongly encouraged to pursue an internship or study abroad in Germany. The German department and the Office of International Programs provide extensive assistance to students interested in doing this: students who go abroad each year come back excited about their experience and speak excellent German.

Intermediate and advanced courses are designed both to enhance language skills and to explore central issues in all areas of German Studies. These courses are open not just to majors and minors but also to all students who meet prerequisites regardless of major area.

Students who enter the University with a background in the German language are strongly urged to continue their study of the language without interruption during their first and second years.

The objectives of the major in German are:

1. to develop facility in the use of German;
2. to provide an integrated knowledge of major German writers in various disciplines; and
3. to gain insight into all aspects of German culture.

The major in German provides valuable background for work in all areas of today's global economy and in the traditional areas of application of language study, such as international relations, teaching, translating, and the tourism industry. Consequently, dual majors in German and another subject (History, Political Science, etc.) are strongly encouraged.

Effective Winter 2017

Advising

German Major — A plan for the major in German is developed in consultation with and must be approved by Karl-Georg Federhofer or Mary Rodena-Krasan the department advisors. Appointments are scheduled online at <https://lsa.umich.edu/german/undergraduate-students/german-studies/german-advising.html>.

German Department faculty are also available to students during regularly scheduled office hours which are posted on the bulletin board outside 3110 Modern Languages Building.

German Minors — Students wishing to pursue a minor in German Studies must develop a specific plan for its completion in consultation with Kalli Federhofer or Mary Rodena-Krasan, the department advisors. Appointments are scheduled online at <https://lsa.umich.edu/german/undergraduate-students/german-studies/german-advising.html>.

Scandinavian Minor — Students wishing to pursue a minor in Scandinavian Studies must

develop a specific plan for its completion in consultation with **Johanna Eriksson**, johanna@umich.edu.

Grade Policies

Students must earn a grade of C- or better in all required courses.

Prerequisites

GERMAN 230, 232, RCLANG 291, or the equivalent (AP/IB score, placement test, transfer credits).

Requirements

Minimum Credits: 30

30 credits beyond GERMAN 232 must include GERMAN 325 or 326, three 300-level courses; GERMAN 425 or 426, three 400-level courses; and at least two additional GERMAN courses numbered GERMAN 300 or higher.

Other Department Policies

Placement Test and Retroactive Credit

Students with high-school credit for German who intend to complete the A.B./B.S. language requirement in German must take a placement test administered by Germanic Languages. The placement test is advisory: students may attempt a higher course than their placement indicates without departmental permission, but must obtain departmental permission to take a lower-level course than their score indicates. LSA students who have attained fourth-term proficiency (GERMAN 232 or the equivalent) are considered to have satisfied the language requirement and may elect more advanced courses. LSA students whose first German course at the U of M is GERMAN 232 are normally eligible for four additional retroactive credits if they complete the course with a grade of "B" or better. Students whose first course is at or above the 300-level are normally eligible for 8 additional retroactive credits. For details, consult the **Guidelines for Retroactive Credits** on this website.

Questions regarding placement and the placement test should be directed to Professor **Hartmut Rastalsky**.

Information about graduate opportunities and careers

Information about graduate opportunities and careers specifically available to students majoring or minoring in German may be obtained from the Department office.

Residency

A minimum of 15 of the required 30 credits must be taken either in residence at Michigan or through a study abroad program affiliated with the University of Michigan.

Distribution Policy

No course used to fulfill a major requirement may be used toward the **LSA Distribution Requirement**. In addition, courses in the GERMAN, DUTCH, and SCAND subject areas may not be used toward the Distribution Requirement.

Honors

In meeting the requirements stated above, students admitted to the Honors major must include

GERMAN 491 and 492 (Honors proseminar and thesis). Completion of preliminary work is a prerequisite to acceptance in the Honors major in German. Admission is granted to qualified students at the end of the junior year. Students must maintain a GPA of 3.7 or higher in German and an overall GPA of 3.4 or higher.

For further information, consult **Karl-Georg Federhofer** (kallimz@umich.edu) or **Mary Rodena-Krasan** (mkrasan@umich.edu).

Teaching Certificate

To secure departmental recommendation for a teaching major, students have to complete a minimum of 34 credits. For a list of the requirements, students should go to: www.soe.umich.edu/files/secondary_german_major_current.pdf. We strongly recommend that students enroll in GERMAN 531 (Fall). To meet the requirements for a teaching minor in German, students should complete GERMAN 325 or 326, any two courses selected from among GERMAN 381, 382, 383, 384, 385, and eight additional credits of senior work (GERMAN 425, 426 and 531 are particularly recommended).

All teaching certificate candidates should consult Karl-Georg Federhofer (kallimz@umich.edu) or Mary Rodena-Krasan (mkrasan@umich.edu).

German Studies Minor

The minor in German Studies provides students with an opportunity to gain and demonstrate competence in the German language above and beyond the level specified by the College language requirement. It also provides an opportunity for students to gain a deeper knowledge of a specific topic within the overarching discipline of German studies.

Effective Winter 2019

Exclusions:

A minor in German Studies is not open to students with a German major .

Advising

Students wishing to pursue a minor in German Studies must develop a specific plan for its completion in consultation with **Kalli Federhofer** or **Mary Rodena-Krasan**, the department advisors. Appointments are scheduled online at <https://lsa.umich.edu/german/undergraduate-students/german-studies/german-advising.html>.

Grade Policies

Students must earn a grade of C- or better in all required courses.

Prerequisites

GERMAN 221, 231, RCLANG 191, or the equivalent (AP/IB score, placement test, transfer credits).

Requirements

Minimum Credits: 18

- 18 credits of courses at the level of GERMAN 230 or 232 or higher are required.
- 12 of the 18 credits must be taught in German and must include either GERMAN 325 or 326 (or RCLANG 321).
- At least one of the courses must be numbered 400 or above.

Constraints

- AP/IB credits will count as prerequisites only and cannot count toward the 18 credits of the German minor.
- 4 credits from GERMAN 230/RCLANG 291 will count toward the German minor.
- Independent studies should not count for German-language credit.
- Translation courses (GERMAN 470 and 472) should count as if taught in the German language.

Global History Minor

The Global History minor equips students to think in global dimensions and to approach the past outside the traditional constraints of national and temporal boundaries. Global History is not simply international history and is more than transnational and comparative studies—the fundamental purpose is to approach the past outside the boxes of nations and geographic regions of the world and to emphasize questions of connectivity, mobility, and scale. A global perspective historicizes regions, migrations, capital flows, and also the presentist concept of globalization itself by revealing how people have long imagined the world across traditional boundaries.

Global and world history coursework highlights comparative analysis and connections across time and space at the largest scales. The minor will prepare students for the contemporary challenges of our “globalizing” world while providing them with the knowledge and awareness that the history and processes of globalization go back a very long time.

Effective Winter 2022

Exclusions:

A minor in Global History is not open to students with a major or any other minor in the Department of History.

Advising

Appointments with History advisors are scheduled online from the department's webpage: [/lsa.umich.edu/history/undergraduates/advising.htm](https://lsa.umich.edu/history/undergraduates/advising.htm). Students should see an advisor as soon as they decide on their major or minor.

The History Department offers a three-tiered advising structure.

Tier 1: Faculty Advisors from the History Department's Undergraduate Committee

- declaring a history major - obtaining general advice about the nature, purpose, and utility of a history degree
- recommending a faculty mentor
- approving study abroad and transfer credit
- declaring an academic minor in History

To make an appointment, go to <http://www.lsa.umich.edu/history/undergraduate/advising>.

Tier 2: The Assistant Director of Undergraduate Studies

- obtaining general advice about the requirements for the major
- checking progress towards the major or minor
- completing the graduation checklist and release

To make an appointment, go to <http://www.lsa.umich.edu/history/undergraduate/advising>.

Tier 3: Individual Faculty Mentors

- obtaining approval for a survey sequence and a major theme
- getting advice about course selection
- obtaining advice about career planning

Students generally meet with a Tier 2 advisor for help in selecting a mentor, but all subsequent advising will be done by that individual professor.

Faculty who go on leave will designate a substitute, and inform all their mentees of the temporary change.

Students must arrange appointments directly with their mentors, and are expected to do so at least once a term. It is the student's responsibility to take the initiative in setting up these meetings.

Prerequisites

None.

Requirements

Minimum Credits: 15

A minimum of 5 courses and 15 credits, distributed as follows

Survey Requirement: Students must take one of the following four courses. (Students may elect up to two to count among the four required "Additional Courses" listed below.)

- HISTORY 237 (Global Environmental History)
- HISTORY 238 (Zoom: A History of Everything)
- HISTORY 239 (The World Before 1492)
- HISTORY 240 (The World Since 1492)

Additional Courses: Four additional courses (a minimum of 3 credits each for at least 12 credits). At least two of the four additional courses must be at the 300-level or higher.

All courses must be from the approved list of classes that count for the Global History Minor.

Approved Courses list

- HISTORY 101 / INTLSTD 205: What Is History?
- HISTORY 102: A History of the Present
- HISTORY 105: Introduction to Religion
- HISTORY 215: The History of Disaster (*only if elected WN 18 or later*)
- HISTORY 223 / ENVIRON 223 Trashed! A History of Garbage in the Modern World
- HISTORY 224 / PUBPOL 224: Global Nuclear Proliferation
- HISTORY 226 / AMCULT 226 / LATINOAM 226: The Latin Tinge: Latin Music in

Social Context in Latin America and the U.S.

- HISTORY 227: The Rise and Fall of the British Empire
- HISTORY 229 / ANTHRCUL 226: Introduction to Historical Anthropology
- HISTORY 230: Humanities Topics in History, *sections titled “Tracking Human Rights”; “Global Cold War”; “The Family in the Modern World”; “Religion in the Making of African America”; “Angels and Demons in Early Christianity”; “Introduction to Islam”*
- HISTORY 232: Interdisciplinary Topics in History, *section titled “Mental Health in Global History”*
- HISTORY 234: History of Medicine in the Western World from the 18th Century to the Present
- HISTORY 241: America and Middle Eastern Wars
- HISTORY 243 / MENAS 243 / ISLAM 243: The Dawn of Islamic History
- HISTORY 248 / ASIAN 248 / RELIGION 248: Jesus Comes to Asia: Conversion and its Consequences in Asia
- HISTORY 256 / JUDAIC 265: Introduction to Jewish Law: Sources, Legal History and Legal Theory
- HISTORY 257 / JUDAIC 257: Law in the Pre-Modern World
- HISTORY 282: History of the Economy
- HISTORY 285 / RCSSCI 275: Science, Technology, Medicine and Society
- HISTORY 287: Horror and Enchantment: A History of the Spanish and Portuguese Early Modern World (*only if elected WN 20 or later*)
- HISTORY 290 / JUDAIC 290 / AAPTIS 287: Jews and Muslims
- HISTORY 291: A World History of Happiness: Care of the Self from the Greeks to the Sufis (*only if elected WN 20 or later*)
- HISTORY 303: Topics in History, *section titled “Atlantic Slave Trade: Histories and Legacies”*
- HISTORY 309: After Alexander: The Hellenistic Age in the Mediterranean and the Near East
- HISTORY 310 / AAS 310 / INTLSTD 310: Atlantic Slavery and the Making of the Modern World
- HISTORY 314 / FRENCH 345: Empire, War, and Modernity: France and the World in the 20th Century
- HISTORY 327 / WGS 327 (WOMENSTD 327): History of Sexuality
- HISTORY 328: Humanities Topics in History, *section titled “The Great War and the Twentieth Century”*
- HISTORY 339 / ASIAN 365 / CLCIV 339: Doctors in the Ancient World: China, Greece, and Rome
- HISTORY 350 / HISTART 323 / MIDEAST 383 / JUDAIC 323 / RELIGION 324: History of Jewish Visual Culture: From Ancient Mosaics to Jew-Hop Videos
- HISTORY 358: Religion, Magic, and Mystery After Alexander (*if elected WN21 or later*)
- HISTORY 363: The U.S. and the World Since 1945: Politics, Culture, and War in the American Century
- HISTORY / AMCULT / NATIVEAM 367: American Indian History (*only if elected WN 14 or later*)
- HISTORY 375 / WGS 375 (WOMENSTD 375): A History of Witchcraft: The 1692 Salem Trials in Historical and Cross-Cultural Perspective
- HISTORY 376: Epidemics: Plagues and Cultures from the Black Death to the Present
- HISTORY 379 / RCSSCI 379 / SI 379: History of Computers and the Internet

- HISTORY 407: Advanced Study in Comparative and International History, *section titled "Gender, Sexuality, and International Human Rights"*
- HISTORY 421 / AAS 421 / LACS 421 / RELIGION 421: Religions of the African Diaspora
- HISTORY/AMCULT 426: Skin/Masks: Violence and (De)Colonization
- HISTORY 441/AMCULT 405/ASIAN 480: History Labs I, *section titled: The Philippines and the University of Michigan*
- HISTORY 445: Topics in History, *sections titled "Debating Capitalism"; "Why the West Rules(d) the World"; "What is Capitalism?"*
- HISTORY 469: Precolonial Southeast Asia
- HISTORY 477: Law, History, and the Dynamics of Social Change (*only if elected FA 15 or later*)
- HISTORY 487: Conversions and Christianities in the Early Modern World and Beyond (*only if elected WN 18 or later*)
- HISTORY 489: The History of the Roman Catholic Church, 1775-2005
- HISTORY 495: The World the Mongols Made

Constraints

AP credit: AP credits may not be used to satisfy requirements of the minor.

Residency

Four of the five courses must be taken in-residence at the University of Michigan-Ann Arbor, or must count as in-residence credit (*i.e.*, relevant courses taken through UM-sponsored CGIS programs abroad).

Global Media Studies Minor

The Global Media Studies minor exists for students interested in the study of film and electronically based visual media as national, regional, and global phenomena. This course of study is intended to aid students in obtaining culturally specific as well as cross-cultural understanding of the global impact of moving image media. The minor contributes to an understanding of the unique qualities of textual expression derived from specific cultural and historical contexts as well as to effects of more globalized developments in media technology, narrative and stylistic forms. Students will have the opportunity to study specific cultural modes of media production and reception including, but not limited to, the familiar U.S. cultural/industrial model. The coursework in this minor provides students with the opportunity to reflect on the expansive geographical scope and cultural diversity of film and moving image electronic media (television, single-camera video, digital).

Effective Fall 2017

Exclusions:

The minor in Global Media Studies is not open to students with a major in the Department of Film, Television, and Media.

Advising

Students who may be interested in a major in Film, Television, and Media are encouraged to consult with a department advisor. Appointments are scheduled **online**.

Grade Policies

A minimum grade of C– or better must be achieved in any course taken to satisfy the requirements for the Global Media Studies Minor.

Prerequisites

None.

Requirements

Minimum Credits: 16

At least 16 credits (and five courses), with at least two courses at the 300-level or above:

1. **Required Core Courses:** seven credits from the following:
FTVM / RCHUMS 150 (FTVM / RCHUMS 236): Introduction to Film, Television, and Media
One of the following: FTVM 351, 352, or 353.
2. **Electives.** 3 electives, at least 2 of which must be from the approved list of Non-US, Transnational, Comparative Film/Media courses. A third course may be from Non U.S., Transnational, Comparative Film/Media or U.S. Media.

Non U.S., Transnational, Comparative Film/Media

- AMCULT 380, 346, 420
- ASIAN 245,440, 458, 475
- AAS 232, 440, 442, 470
- COMM 251
- CZECH 315
- GERMAN 172, 330, 333, 346
- JUDAIC 250
- MIDEAST 331 (*only if elected FA21 or later*)
- POLISH 314
- RCHUMS 312, 313
- SLAVIC 312, 313
- SPANISH 420
- FTVM 232, 245, 250, 312, 313, 314, 315, 316, 320, 321 (*only if elected FA21 or later*), 324, 332, 333, 346, 358, 361, 379 (*only if elected WN20 or later*), 380, 420, 422, 440, 441, 442, 458, 470, 475, 485
- FTVM 366, *sections titled:*
 - *"Science Fiction in Film, TV & Popular Culture";*
 - *"Recent US Wars in Film & TV";*
 - *"Adaptations";*
 - *"Amateur Cinema";*
 - *"Nazi Cinema";*
 - *"Documentaries: From Vietnam to Iraq";*
 - *"East Asian Horror";*
 - *"Hollywood, Vietnam, & the Gulf";*
 - *"Television Genres";*
 - *"Race, Ethnicity, and the Media";*
 - *"Authorship in Film and Media";*
 - *"Magic and Moving Image";*

- *"Documentary Cinema"*;
- *"Subtitling"*;
- *"Cinema Babel: Subtitling & Dubbing"*;
- *"Television Cities, Spaces & People"*;
- *"Sex and Media"*;
- *"Sex in Media"*
- FTVM 455 sections titled:
 - *"Dialogue of Violence"*;
 - *"TV Genres"*;
 - *"Religion in Film"*;
 - *"Philosophy of Film"*;
 - *"Hollywood, Vietnam, Gulf Wars"*;
 - *"The War Film"*;
 - *"Cult, Camp, and Exploitation Cinema"*;
 - *"Speaking with Ghosts: Mediums and New Media"*;
 - *"Media Cultural Theory"*;
 - *"Cinema of the Pacific War"*;
 - *"Dialogues of Violence: WWII and Cinema"*
- PHIL 440
- WGS / FTVM 361 (FTVM / WOMENSTD 361)

U.S. media

- AMCULT 334, 351, 490
- FTVM 202, 316, 325, 330, 331, 334, 354, 355, 365, 367, 368, 381, 435 (335), 451, 460, 461
- FTVM 366 sections titled:
 - *"Sex, Society & Censorship in Classical Hollywood"*;
 - *"Fan Cultures and Popular Media"*;
 - *"Self as Subject"*;
 - *"TV Sports Programming"*;
 - *"The Road Movie & American Culture"*;
 - *"Media Spaces"*;
 - *"Stardom & Ethnicity in US Cinema"*;
 - *"Race, Ethnicity, & Stardom in US Cinema"*;
 - *"The Situation Comedy"*;
 - *"Fiction into Film"*;
 - *"The Horror Film after Psycho"*;
 - *"Film Noir"*;
 - *"3-D Viewing"*;
 - *"Exploitation Cinema"*;
 - *"Countercultures, Subcultures, & Mass Media"*;
 - *"Race Ethnicity & Stardom in Hollywood"*;
 - *"Cult, Camp, Art & Exploitation"*;
 - *"Television Genres: Cult TV"*;
 - *"Motor City Movies"*
- FTVM 455 sections titled:
 - *"Contemporary Film Industry"*;
 - *"Post-Classical Hollywood Cinema"*;
 - *"The Horror Film after Psycho"*;

- *"Science Fiction in Film"*;
- *"Internet as Popular Culture"*;
- *"Musicals: In and Out of Hollywood"*;
- *"Media Effects Topics"*;
- *"Video Games, Cultures & Contexts"*;
- *"American Independent Cinema"*;
- *"Film Noir"*;
- *"Zombies! Exhuming the Undead in American Culture"*

Constraints

- Independent Studies (FTVM 499) may not be used toward the minor.
- Students may not use more than one course to satisfy the requirements of both a major and a minor.

Global Theatre and Ethnic Studies (Minor)

“Ethnic studies” references ethnic, under-represented communities in the United States and their diaspora affiliations overseas. It includes, but is not limited to African American, Arab American, Asian/Pacific Islander American, Latino/a, and Native American communities. The scope of this minor includes the dramatic literature of these American communities and embraces global literature and performance practices that are in dialogues with these communities.

The goal of this minor is to introduce students to literature and performance histories of diverse cultures and to use studio practice to develop proficiency in creating new work from diverse cultural perspectives. The minor is designed for humanities students, arts students, and other students interested in performance practice (music, theatre, dance, or dramatic literature) based upon diverse cultural perspectives, and provides experience in non-western performance practice, playmaking, and theatre studies.

By completing this minor, students will develop skills in text analysis, historical/cultural research, critical thought and public performance. In addition, they will learn how performance practices can be used to critically interrogate global histories and social structures.

Students will learn:

- To research and articulate (through writing and performance) multicultural and intercultural performance histories.
- To read and analyze theatrical works emerging from diverse cultural contexts.
- To perform and create new dramatic works that represent diverse cultural perspectives
- To organize, network, and interact with diverse cultural communities around performing arts practice.

The Global Theatre and Ethnic Studies minor teaches students how to analyze, perform, and create works emerging from diverse cultural contexts. Students will develop skills in multicultural and intercultural performance analysis, historical/cultural research, and critical thought and public performance. Students will also engage in organizing, networking, and

interacting with diverse cultural communities.

The minor complements existing programs in SMTD, LSA, Art and Design, and the Residential College by providing students with global and diverse perspectives on performance. For performance majors (Theatre, Music, and Dance), the minor builds upon traditional arts training and enhances job prospects in an increasingly interdependent cultural economy. For non-theatre majors, the minor provides experiences in performance practice, playmaking, and theatre studies.

Applying and Advising: Students interested in the Global Theatre and Ethnic Studies minor should contact Professor Mbala Nkanga.

Requirements: Five courses or 15 credits of coursework. Courses are a balance of studio/practice classes and applied literary analysis. A capstone course immerses students in an international and/or community engagement experience.

Required Courses

THREMUS 222: Introduction to Global Theatre and Ethnic Studies (3 credits)

THEATRE 233: Modern Rituals/Traditional Practices (3 credits)

THEATRE 324: Global Community Practicum or equivalent (3 credits)

Students may earn remaining credits among the following elective courses:

THEATRE 325: Contemporary American Drama (3 credits)

THEATRE 326: Intercultural Drama (3 credits)

THEATRE 332: Performing Archives and Oral Histories (3 credits)

THEATRE 340: Devised Theatre (3 credits)

THEATRE 440: Special Topics (3 credits)

Greek (Ancient) Language and Literature Major

A major in Classical Studies equips its students with the knowledge, skills, intellectual agility, and different points of view to pursue a variety of careers, whether the student's next step is entry into the workforce or further education in professional or graduate school. Faculty advisors work with students to develop a program of study within their major and to articulate the connections between their education and career goals and aspirations.

Learning Goals for All Majors

Every major in Classical Studies asks students to:

- explore the many facets of the ancient world—its history, societal and cultural practices, and intellectual endeavors (e.g., law, religion, political theory and practice, art and material objects, language and literature, philosophy, science)
- recognize and interpret the complexities of the ancient world, including such problematic aspects as slavery, gender inequality, and various types of bias
- understand different critical perspectives

- ask questions and engage in critical thinking, especially analysis and synthesis of information, ideas, and situations to solve complex problems
- work with a variety of primary sources, both textual (in the original language or translation) and material (aided by the resources of the Kelsey Museum and the papyrology collection)
- make inferences from the fragmentary and incomplete record of the past
- communicate complex ideas and persuasive arguments in writing and oral presentations
- conduct research using primary and secondary sources, including both traditional and digital media

The Classical Studies Department encourages its students to participate in the wide array of events and activities in which faculty and graduate students are involved, including UROP projects, student clubs, lectures, brown bag presentations, and reading groups. Students are also encouraged to study abroad.

Because many Classical Studies courses are small, majors have opportunities to work closely with their professors and professors get to know their students well.

Greek, Latin, or Classical Languages and Literatures (Greek and Latin)

In addition to the learning goals mentioned above, each of the three language tracks asks students to:

- attain a sophisticated understanding of the ancient language(s) and a deepened understanding of how language constructs meaning
- attain a deep familiarity with foundational literary works and genres through close reading and critical analysis of the content and structure of texts in the original language(s)
- understand the ancient language(s) as the source for the terminology of medicine, law, and the sciences
- understand the wide-ranging influence of classical literature from antiquity to the modern era on cultural and creative enterprise
- draw on the rhetorical and narrative strategies of classical literature to strengthen and refine skills in writing clearly and persuasively

Our department provides free "drop-in" tutoring available to all students in the Elementary Latin and Greek courses.

Effective Winter 2023

Advising

Students interested in the Department's majors in Greek, Latin, Classical Languages and Literatures, Classical Archaeology, Classical Civilization or Modern Greek major should check with the Department office for the name of the current advisor. Students interested in obtaining Teacher Certification in Latin should see the Elementary Latin Coordinator.

The Department recommends that interested students see the department advisors as early as possible in order to plan their programs and avoid unnecessary scheduling conflicts.

Students wishing to pursue a minor in Classical Studies must develop a specific plan for its completion in consultation with the Department's designated advisor.

Grade Policies

The department requires that a student earn a grade of at least C– in all language courses which are prerequisite for subsequent elections. A student should repeat any language course in which a D+ or lower grade is earned and which serves as a prerequisite to other courses which are to be elected. A grade of D+ signifies some achievement but denotes too weak a foundation for subsequent courses.

Prerequisites

Either GREEK 101 and 102, or GREEK 103, or special placement examination.

Requirements

Minimum Credits: 24

Requires a minimum of 8 courses (of at least 3-credits each) including:

1. One introductory course selected from CLARCH 221 or HISTORY 200
2. Six courses in GREEK at the 300-level or above (at least 4 must be at the 400-level or above, usually including GREEK 401 and 402)
3. At least one upper-level (300- or 400-level) course in Greek civilization, archaeology, or history

Constraints

Three credits of Independent Study (GREEK 499) may be used with written approval of the undergraduate advisor

Distribution Policy

No course used to fulfill a major requirement may be used toward the **LSA Distribution Requirement**. In addition, courses in the CLARCH, CLCIV, CLLING, GREEK, GREEKMOD, and LATIN subject areas may not be used toward the Distribution Requirement.

Honors

The department offers Honors in each of the six majors. Interested students who have a cumulative grade point average of at least 3.4 should contact their department advisor to discuss an Honors thesis no later than the winter term of their junior year.

It is the student's responsibility to find a suitable faculty advisor to oversee the thesis project. This project and its components are to be decided collectively by the student and the advisor at the end of the junior year. We encourage students to think creatively about the approach to their research and thesis project. Thesis advisors must sign off on a student's thesis project proposal.

At the end of the thesis project, the candidate must offer an oral defense of this work to a committee comprised of the thesis advisor and another faculty member, and present their research findings at the Classical Studies Honors Symposium.

Additional requirements for Honors candidates are specified with each major.

Honors in Greek (Ancient) Language and Literature

In addition to the above requirements, students pursuing an Honors major must satisfy the following:

- 3.4 minimum cumulative GPA; 3.5 minimum major GPA
- Completion of an Honors thesis and oral defense in coordination with a Classics faculty member
- Completion of one additional Greek course at the 420-level or above (CLCIV 480 & GREEK 495 do not satisfy this requirement)
- CLCIV 480: Studying Antiquity, *section titled "Research Seminar"* (Fall term)

Students may also elect GREEK 495 for 1-2 credits in the Fall and 1-3 credits in the Winter but are not required to do so.

Greek (Ancient) Language and Literature (Major) (Fall 2018 - Fall 2022)

Effective Fall 2018

Advising

Students interested in the Department's majors in Greek, Latin, Classical Languages and Literatures, Classical Archaeology, Classical Civilization or Modern Greek major should check with the Department office for the name of the current advisor. Students interested in obtaining Teacher Certification in Latin should see Professor Deborah Ross.

The Department recommends that interested students see the department advisors as early as possible in order to plan their programs and avoid unnecessary scheduling conflicts.

Students wishing to pursue a minor in Classical Studies must develop a specific plan for its completion in consultation with the Department's designated advisor.

Grade Policies

The department requires that a student earn a grade of at least C– in all language courses which are prerequisite for subsequent elections. A student should repeat any language course in which a D+ or lower grade is earned and which serves as a prerequisite to other courses which are to be elected. A grade of D+ signifies some achievement but denotes too weak a foundation for subsequent courses.

Prerequisites

GREEK 101 and 102 or special placement examination.

Requirements

Minimum Credits: 27

Requires a minimum of 9 courses (of at least 3 credits each) including:

1. Seven courses in GREEK at the 300-level or above (at least 4 of these must be at the 400-level or above, usually including GREEK 401 and 402).
2. One introductory course selected from CLARCH 221, CLCIV 101, HISTORY 200.
3. At least one upper-level (300- or 400-level) course in Greek civilization, archaeology, or history. Minimum of 3 credits.

Constraints

Three credits of Independent Study (GREEK 499) may be used with written approval of the undergraduate advisor

Distribution Policy

No course used to fulfill a major requirement may be used toward the **LSA Distribution Requirement**. In addition, courses in the CLARCH, CLCIV, CLLING, GREEK, GREEKMOD, and LATIN subject areas may not be used toward the Distribution Requirement.

Honors

Effective Date of Honors requirements for the major Fall 2006

The department offers Honors in each of the six majors. Interested students who have a cumulative grade point average of at least 3.5 should contact their department advisor to discuss an Honors thesis no later than the winter term of their junior year at the latest.

It is the student's responsibility to find a suitable faculty advisor to oversee the thesis project. This project and its components are to be decided collectively by the student and the advisor at the end of the junior year. We encourage students to think creatively about the approach to their research and thesis project. Thesis advisors must sign off on a student's thesis project proposal.

Honors students may receive six credits during their senior year for research culminating in a thesis project by registering for one of the following courses: CLARCH 495, CLCIV 495, GREEK 495 or LATIN 495 depending on the major. At the end of the thesis project, the candidate must offer an oral defense of this work to a committee comprised of the thesis advisor and another faculty member, and present their research findings at the Classical Studies Honors Symposium.

Additional requirements for Honors candidates are specified with each major.

Effective Fall 2016

In addition to the above requirements, students pursuing an Honors major must satisfy the following:

- 3.4 minimum overall GPA; 3.5 minimum major GPA
- Completion of an Honors thesis and oral defense in coordination with a Classics faculty member
- Completion of one additional Greek course at the 420-level or above (CLCIV 480 & GREEK 495 do not satisfy this requirement)
- CLCIV 480: Studying Antiquity, *section titled "Research Seminar"* (Fall term)

Students may also elect GREEK 495 for 1-2 credits in the Fall and 1-3 credits in the Winter but are not required to do so.

Greek (Ancient) Language and Literature Minor

This minor is designed to provide a basic, but contextual and broad, familiarity with Greek language and literature and the civilization of ancient Greece. More specifically, it requires students to study, at the intermediate and advanced level, Greek and authors writing poetry and/or prose, but at the same time it acquaints the student with the broader historical, social, and

cultural content in which these authors lived and worked.

Effective Winter 2015

Exclusions:

The minor in Greek (Ancient) Language and Literature is not open to students with a major in Greek (Ancient) Language and Literature or Classical Languages or any other minor in the Department of Classical Studies.

Advising

The Department recommends that interested students see the department advisors as early as possible in order to plan their programs and avoid unnecessary scheduling conflicts.

Students wishing to pursue a minor in Classical Studies must develop a specific plan for its completion in consultation with the Department's designated advisor. Appointments may be scheduled at 2160 Angell Hall.

Grade Policies

The department requires that a student earn a grade of at least C– in all *language* courses which are prerequisite for subsequent elections. A student should repeat any *language* course in which a D+ or lower grade is earned and which serves as a prerequisite to other courses which are to be elected. A grade of D+ signifies some achievement but denotes too weak a foundation for subsequent courses.

Prerequisites

GREEK 301, or equivalent as determined by departmental placement examination.

Requirements

Minimum Credits: 16

1. **Greek Language and Literature courses:** at least two upper-level courses, above GREEK 301.
2. **Greek Civilization courses:** at least one broad introductory course (CLCIV 101, CLARCH 221, or HISTORY 200).
3. **Upper-Level courses:** at least one upper-level (300- or 400-level) course in Greek civilization, archaeology, or history.

Greek (Modern) Language and Culture Major

A major in Classical Studies equips its students with the knowledge, skills, intellectual agility, and different points of view to pursue a variety of careers, whether the student's next step is entry into the workforce or further education in professional or graduate school. Faculty advisors work with students to develop a program of study within their major and to articulate the connections between their education and career goals and aspirations.

Learning Goals for All Majors

Every major in Classical Studies asks students to:

- explore the many facets of the ancient world—its history, societal and cultural practices, and intellectual endeavors (e.g., law, religion, political theory and practice, art and material objects, language and literature, philosophy, science)
- recognize and interpret the complexities of the ancient world, including such problematic aspects as slavery, gender inequality, and various types of bias
- understand different critical perspectives
- ask questions and engage in critical thinking, especially analysis and synthesis of information, ideas, and situations to solve complex problems
- work with a variety of primary sources, both textual (in the original language or translation) and material (aided by the resources of the Kelsey Museum and the papyrology collection)
- make inferences from the fragmentary and incomplete record of the past
- communicate complex ideas and persuasive arguments in writing and oral presentations
- conduct research using primary and secondary sources, including both traditional and digital media

The Classical Studies Department encourages its students to participate in the wide array of events and activities in which faculty and graduate students are involved, including UROP projects, student clubs, lectures, brown bag presentations, and reading groups. Students are also encouraged to study abroad.

Because many Classical Studies courses are small, majors have opportunities to work closely with their professors and professors get to know their students well.

Greek (Modern) Language and Culture

In addition to the learning goals stated above, the Modern Greek major asks students to:

- attain advanced fluency in Modern Greek in the four skills of speaking, writing, reading comprehension, and listening comprehension
- study the language, literature, and culture of Greek-speaking people in the modern period at the crossroads of the Eastern Mediterranean and in diaspora communities
- explore the diverse fields of history, political science, anthropology, and classical civilization in their intersection with Modern Greek Studies
- examine transformations of Hellenic ideas, forms, and physical space in modern times

The program also encourages students to pursue an internship in Greece, Cyprus, and relevant offices in Washington DC and other cities in the US to pair their skills in Greek and English with real-life experience outside the classroom. In collaboration with the University of Michigan community, we facilitate access to internships, funding, employers and partnerships offering diverse, challenging opportunities.

The field of Modern Greek consists of the study of global Hellenism over the last five centuries, including its intersection with the classical tradition in other cultures. Students pursuing the major in Modern Greek Studies study modern Hellenism, with a special emphasis on Greece and the Greek communities of the U.S. They also familiarize themselves with Hellenism's ancient and medieval origins. The major requires detailed learning of the language and firm grounding in the knowledge of culture but also offers familiarity with broader issues of our

times such as identity, tradition, transnationalism, globalism, and orientalism. Thus the major provides a broad-based liberal arts education and contributes to the development of critical thinking and related skills, both linguistic and interpretive. The major builds on the great strengths of the Department of Classical Studies and the Program in Comparative Literature, as well as on traditional West European, Balkan, and Mediterranean strengths across the College.

Modern Greek courses cover language, literature, and culture, offering a systematic introduction to the Greek world of the last ten centuries, and especially to its contemporary social reality and intellectual achievement. As part of a liberal arts education, they promote the contextual study, both local and global, of contemporary Greek culture, placing particular emphasis on literary studies, critical theory, cultural politics, ethnicity, and diaspora (especially Greek-American). The Modern Greek Studies program offers both a major and a minor.

Effective Winter 2023

Advising

Students interested in the Department's majors in Greek, Latin, Classical Languages and Literatures, Classical Archaeology, Classical Civilization or Modern Greek major should check with the Department office for the name of the current advisor. Students interested in obtaining Teacher Certification in Latin should see the Elementary Latin Coordinator.

The Department recommends that interested students see the department advisors as early as possible in order to plan their programs and avoid unnecessary scheduling conflicts.

Students wishing to pursue a minor in Classical Studies must develop a specific plan for its completion in consultation with the Department's designated advisor.

Grade Policies

The department requires that a student earn a grade of at least C– in all language courses which are prerequisite for subsequent elections. A student should repeat any language course in which a D+ or lower grade is earned and which serves as a prerequisite to other courses which are to be elected. A grade of D+ signifies some achievement but denotes too weak a foundation for subsequent courses.

Prerequisites

GREEKMOD 101 and 102 (or MODGREEK 101 and 102).

Requirements

Minimum Credits: 29

Minimum of 9 courses, distributed as follows:

1. ***Modern Greek Language:***
Four (4) terms of Modern Greek language at the 200-level and above: GREEKMOD 201, 202, 301, and 302 (or MODGREEK 201, 202, 301, and 302); (205 and 305 are excluded).
2. ***Modern Greek Literature and Culture:***
GREEKMOD 214: Intro to Modern Greek Culture and three additional courses in Modern Greek literature and culture at the 300-level and above.
3. ***Structure course:*** One course, selected from CLCIV, CLARCH, COMPLIT, HISTORY, HISTART or POLISCI in consultation with, and approved by, the department advisor.

Distribution Policy

No course used to fulfill a major requirement may be used toward the **LSA Distribution Requirement**. In addition, courses in the CLARCH, CLCIV, CLLING, GREEK, GREEKMOD, and LATIN subject areas may not be used toward the Distribution Requirement.

Honors

The department offers Honors in each of the six majors. Interested students who have a cumulative grade point average of at least 3.4 should contact their department advisor to discuss an Honors thesis no later than the winter term of their junior year at the latest.

It is the student's responsibility to find a suitable faculty advisor to oversee the thesis project. This project and its components are to be decided collectively by the student and the advisor at the end of the junior year. We encourage students to think creatively about the approach to their research and thesis project. Thesis advisors must sign off on a student's thesis project proposal.

At the end of the thesis project, the candidate must offer an oral defense of this work to a committee comprised of the thesis advisor and another faculty member, and present their research findings at the Classical Studies Honors Symposium.

Additional requirements for Honors candidates are specified with each major.

Honors in Greek (Modern) Language and Culture

In addition to the above requirements, students who have demonstrated superior ability in the language and serious interest in a project of research, may be admitted to a program of advanced study at the beginning of the senior year, leading to the degree of Bachelor of Arts with Honors in Modern Greek Studies. Students pursuing an Honors major must satisfy the following:

- 3.4 minimum cumulative GPA; 3.5 minimum major GPA
- Completion of an Honors thesis and oral defense in coordination with a Classics faculty member
- CLCIV 480: Studying Antiquity, *section titled "Research Seminar"* (Fall term)

Students may also elect GREEKMOD 495 for 1-2 credits in the Fall and 1-3 credits in the Winter but are not required to do so.

Greek (Modern) Language and Culture (Major) (Fall 2018 - Fall 2022)

Effective Fall 2018

Advising

Students interested in the Department's majors in Greek, Latin, Classical Languages and Literatures, Classical Archaeology, Classical Civilization or Modern Greek major should check with the Department office for the name of the current advisor. Students interested in obtaining Teacher Certification in Latin should see Professor Deborah Ross.

The Department recommends that interested students see the department advisors as early as possible in order to plan their programs and avoid unnecessary scheduling conflicts.

Students wishing to pursue a minor in Classical Studies must develop a specific plan for its completion in consultation with the Department's designated advisor.

Grade Policies

The department requires that a student earn a grade of at least C– in all language courses which are prerequisite for subsequent elections. A student should repeat any language course in which a D+ or lower grade is earned and which serves as a prerequisite to other courses which are to be elected. A grade of D+ signifies some achievement but denotes too weak a foundation for subsequent courses.

Prerequisites

GREEKMOD 101 and 102 (or MODGREEK 101 and 102).

Requirements

Minimum Credits: 32

Minimum of ten courses, distributed as follows:

1. ***Modern Greek Language:***
Four (4) terms of Modern Greek language at the 200-level and above: GREEKMOD 201, 202, 301, and 302 (or MODGREEK 201, 202, 301, and 302); (205 and 305 are excluded).
2. ***Modern Greek Literature and Culture:***
Three courses in Modern Greek literature and culture at the 300-level and above.
3. ***Structure courses:*** Three courses, selected in consultation with, and approved by, the department advisor.

Distribution Policy

No course used to fulfill a major requirement may be used toward the **LSA Distribution Requirement**. In addition, courses in the CLARCH, CLCIV, CLLING, GREEK, GREEKMOD, and LATIN subject areas may not be used toward the Distribution Requirement.

Honors

In addition to the above requirements, students who have demonstrated superior ability in the language and serious interest in a project of research, may be admitted to a program of advanced study at the beginning of the senior year, leading to the degree of Bachelor of Arts with Honors in Modern Greek Studies. Students pursuing an Honors major must satisfy the following:

- 3.4 minimum overall GPA; 3.5 minimum major GPA
- Completion of an Honors thesis and oral defense in coordination with a Classics faculty member
- CLCIV 480: Studying Antiquity, *section titled "Research Seminar"* (Fall term)

Students may also elect GREEKMOD 495 for 1-2 credits in the Fall and 1-3 credits in the Winter but are not required to do so.

Greek (Modern) Language and Culture Minor

This minor is designed to provide a basic, but contextual and broad, familiarity with Modern Greek language, literature, and culture. More specifically, it requires students to study, at the intermediate and advanced level, Modern Greek and authors writing poetry and/or prose, but at the same time it acquaints the student with the broader historical, social, and cultural content in which these authors lived and worked. The minor is for students who have a strong interest in contemporary Hellenism and who wish to explore it, under close and careful supervision, in a meaningful fashion.

Effective Winter 2016

Exclusions:

The minor in Greek (Modern) Language and Culture is not open to students with a major in Greek (Modern) Language and Culture or any other minor in the Department of Classical Studies.

Advising

Students wishing to pursue a minor in Classical Studies must develop a specific plan for its completion in consultation with the Department's designated advisor . Appointments may be scheduled at 2160 Angell Hall.

Grade Policies

The department requires that a student earn a grade of at least C– in all *language* courses which are prerequisite for subsequent elections. A student should repeat any *language* course in which a D+ or lower grade is earned and which serves as a prerequisite to other courses which are to be elected. A grade of D+ signifies some achievement but denotes too weak a foundation for subsequent courses.

Prerequisites

GREEKMOD 201 (or MODGREEK 201), or equivalent as determined by departmental placement examination.

Requirements

Minimum Credits: 16

1. **Modern Greek Language and Literature:** at least two courses in modern Greek language and literature, above GREEKMOD 201 (MODGREEK 201).
2. **Modern Greek culture:** at least one broad introductory course. (GREEKMOD 302 (MODGREEK 302) can be used for this requirement if not used for the language and literature requirement)
3. **Upper-Level courses:** at least two upper-level (300- or 400-level) courses in modern Greek diaspora and travel.

Substitutions: Any appropriate course taught in the area of Modern Greek Studies in departments other than Classical Studies must be approved by the program advisor and the Chair in Modern Greek.

History Major

History is the study of the past and how we remember it. If it happened, historians deal with it-

whether it happened yesterday or five thousand years ago. Far too many people imagine that history is merely the dry memorization of names and dates, but a major in history at the University of Michigan will quickly dispel that myth. If you are interested in people and how they interact with the social and natural world, then you should be interested in history. Our courses cover everything: music, politics, family life, technology, war, gender relations, science, medicine, religion, ideologies, sports, and much, much more. Contrary to yet another popular myth, history is one of the most practical, useful majors that one could select. Our students develop skills in critical thinking, writing, and thoughtful reading. Above all, we help students appreciate every aspect of life as part of a much broader and more complicated context, which not only enriches our students' lives but allows them to become sophisticated decision-makers. It is no surprise that employers, law schools, other professional schools, and graduate programs in a wide variety of fields look so favorably upon history graduates.

The history major allows students the flexibility to develop a program that meets their personal interests and needs. Distribution requirements ensure that all students will encounter a wide range of topics, and every student works one-on-one with a faculty mentor to fashion his or her own individualized focus. This combination of breadth, customization, and unparalleled mentoring ensures that the history major can meet the needs of virtually any student.

Effective Fall 2022

Advising

Appointments with History advisors are scheduled online from the department's webpage: www.lsa.umich.edu/history/undergraduates. Students should see an advisor as soon as they decide on their major or minor.

Prerequisites

None.

Requirements

Minimum Credits: 30

A major in History requires a total of ten history courses. Five of these courses must be taken in residence at the University of Michigan-Ann Arbor. At least five of the ten courses must be at the upper-level (300-level or above) and none can be numbered below 200. Three- and four-credit courses count as one course with the exception of HISTORY 294 when taken for two credits.

- **Required course.** Every History Major must take HISTORY 202: Doing History, during the first semester after they declare. If scheduling problems make it absolutely impossible to take the class immediately, it can be delayed with the approval of a department advisor. This course will introduce students to historical research and writing by engaging directly with a wide range of primary sources and considering the various ways they can be interpreted.
- **The Survey Sequence.** The foundation of the history major is a two-part survey sequence. The Department offers a range of pre-approved sequences in various geographical, chronological, and thematic areas, but students can also develop their own pairings in consultation with a faculty mentor and with the approval of the Department's Director of Undergraduate Studies. A frequently updated list of possible pairings will be available on the History Department website. For a sequence to be approved, the two

classes must have a clear and well-conceptualized link, and they must fit within a broader theme.

- **Regional Distribution**

- Students have to take at least one course in four of the following areas: North America, Latin America, Europe, the Middle East/Central Asia, Africa, Asia, and Transregional/Global. Courses taken to satisfy the survey sequence requirement **can** be used to satisfy the regional distribution requirement.
- Courses will count in the Transregional/Global category if they cut across significant geographical boundaries (i.e., continents or oceans) as well as major political boundaries. Included are courses dealing with one oceanic basin, but excluded are courses dealing with multiple sites within one continent.

- **Pre-1800 Distribution.** Students must take at least one course that focuses on a period prior to the year 1800. To meet this requirement, at least 75% of the course material must deal with the pre-modern era. This course can also count as one of the regional courses. Courses taken to satisfy the survey sequence requirement **cannot** be used to satisfy the pre-1800 requirement.
- **Junior-Senior Colloquium Requirement.** Take one of the following three courses: HISTORY 491, HISTORY 496 or HISTORY 497. Honors students fulfill this requirement by completing HISTORY 499.

A list of pre-approved regional distribution courses and pre-1800 courses will be maintained on the History Department website.

These requirements can overlap and fulfill more than one requirement. For example, a colloquium about ancient Greece satisfies the pre-1800, European, and colloquium requirements and also counts as one of the upper-level history courses.

Beyond these basic requirements, each student works with an individual faculty mentor to customize his or her program. Prior to declaring a History major, students meet with a general department advisor to discuss the program requirements. Upon declaring, each student may select a faculty mentor who will serve as his or her personal advisor. Department advisors will help students select a mentor based on each individual's interests and needs. The mentor helps the student pick an appropriate survey sequence and select additional courses that will give coherence to the degree program. What form that coherence will take is up to the student (with the mentor's guidance). Some opt for a geographical focus (the United States, Africa, Europe, etc.), while others might prefer a more thematic approach (women's history, international or transnational history, cultural history, etc.). Still others might want to emphasize global or chronological breadth within a more diversified set of classes.

Constraints

- No more than eight credits may be elected from HISTORY 395 (Independent Study).
- Two one- to two-credit mini-courses may be combined to equal one course.
- HISTORY 294, Explorations in History (when taken for two-credits) will count as one course.

Residency

Five of the ten History courses must be taken in residence at the University of Michigan-Ann Arbor.

Distribution Policy

No course used to fulfill a major requirement may be used toward the **LSA Distribution Requirement**. In addition, courses in the HISTORY subject area may not be used toward the Distribution Requirement.

Honors

The Junior-Senior Honors Program in the Department of History is open to juniors majoring in history who have maintained at least a 3.4 grade point average overall and a 3.5 average in history courses. Applications are accepted annually in October. The usual applicant is a first-term junior for this three-term program. Admission decisions will be based on a student's academic performance, background in history, demonstrated ability to write, and recommendations by history faculty. High grade point average alone does not guarantee admission.

Accepted students will be notified in November and will begin their participation in the program the following January in HISTORY 498, the Junior Honors Colloquium. Members of the Honors Program must fulfill all the usual requirements for majoring in History. The two required Honors courses, HISTORY 498 (4 credits) and HISTORY 499 (for a total of 6 credits over the two semesters), count toward the fulfillment of these requirements. Completion of HISTORY 499, the Senior Honors Colloquium, satisfies the Jr./Sr. Colloquium Requirement, described above, as well as the Upper-Level Writing Requirement (ULWR). Students who complete HISTORY 498 but not HISTORY 499 must satisfy this requirement by taking either HISTORY 496 or 497.

Teaching Certificate

Students must consult the Teacher Education Office, located in the School of Education, 610 East University. Their website (www.soe.umich.edu) may be consulted for certification program information and general information meeting schedules.

The teaching major and minor for certification differ from the academic history major and minor. History courses required for a teaching certificate with a major in History must include HISTORY 260 and 261 (The U.S. survey sequence), one course in European history, HISTORY 496 or 497, and specific world and non-Western history courses listed on the SOE website. History electives are chosen to reach the minimum 30 credits of History.

Teaching minor requirements are the same as the teaching major with a minimum of 20 credits of History.

History Minor

A minor in history is a great way to explore historical questions and issues while pursuing a major in a different field. The History minor offers a straightforward, coherent, and yet very flexible program that provides a solid introduction to the discipline, and also enhance the

interpretive and analytical skills historians depend on and employers value. These skills include learning to become a consciously critical reader, a concise and compelling writer, and a person who not only 'knows stuff' but who can tell others what the 'stuff' means and why it matters.

Effective Fall 2022

Exclusions:

A minor in History is not open to students with any major or any other minor in the Department of History, nor to those pursuing a minor in Modern European Studies.

Advising

Appointments with History advisors are scheduled online from the department's webpage: www.lsa.umich.edu/history/undergraduates. Students should see an advisor as soon as they decide on their major or minor.

Prerequisites

None.

Requirements

Minimum Credits: 15

- Five courses (at least 15 credits), to be chosen in consultation with a faculty advisor, covering at least two of the following areas: North America, Latin America, Europe, the Middle East/Central Asia, Africa, Asia, and Transregional/Global.
- At least four of the five courses must be at the 200-level or above; at least two courses must be at the 300-level or higher.

Constraints

- First-Year Seminars do not count toward the minor.
- Two mini-courses will equal one regular course.
- HISTORY 294, *Explorations in History* (when taken for two credits) will count as one course.
- **AP credit:** AP credits may not be used to satisfy requirements of the minor.

Residency

Four of the five courses must be taken in-residence at the University of Michigan, Ann Arbor, or must count as in-residence credit (i.e., relevant courses taken through UM-sponsored CGIS programs abroad).

History of Art Major

History of Art examines the wide range of things that humanity has made and looked at and endowed with meaning - from the imposing facade of an imperial palace, to the colorful glory of stained glass or oil painting, to an artist's intimate sketches. The discipline encompasses the study of painting, sculpture, the graphic media, and architecture, as well as an extensive variety of visual forms produced for purposes that run far afield of the traditional territory of "art" itself (advertising, say, or ritual and ceremony, or popular

entertainment).

Students become conversant with the world's cultures and develop skills in visual analysis in order to understand how images, objects and built environments communicate. They also learn to employ a broad selection of interpretive methodologies. Through careful work with original sources and a wide-ranging study of comparative cultures, our students learn to consider how art objects were understood in their own time and place, and how they continue to function in the contemporary world. In doing so, history of art students become acute observers and interpreters of the visual environment.

A major in History of Art provides an excellent general foundation for work in a range of careers which rely on visual literacy as well as training in the humanities. Graduates of our program have pursued careers not only in university teaching and research, museums, galleries, auction houses, but also in arts administration, art therapy, design, advertising, criticism, journalism, publishing, libraries, computer and digital technology, and historical preservation.

The History of Art Student Services Office, located in 50 Tappan Hall, maintains files of information on career options, internships, study abroad programs, graduate schools, Museum Studies programs, and fellowships.

Effective Winter 2018

Advising

A major or minor in the History of Art is developed in consultation with a History of Art advisor. Appointments are scheduled through the departmental website: <http://lsa.umich.edu/histart/undergraduates/advising-appointments.html>.

Majors and minors must consult with an advisor at least once a year.

The History of Art Website. For further information about the curriculum, student resources, faculty and staff, departmental events, and Helicon (the undergraduate art history association), please consult the History of Art website: www.lsa.umich.edu/histart/

Prerequisites

None.

Requirements

Minimum Credits: 30

At least 24 credits in History of Art and 6 cognate credits.

The 24 History of Art credits must include:

- 6 credits at the 200 level.
- 12 credits at the 300 level or higher, including a 3-credit seminar
- 6 additional credits at the 200 level or higher.
- completion of the History of Art **Distribution Requirements** for Majors.

Distribution Requirements. There are two kinds of distribution requirements, one focusing

on historical time periods and the other on different regions of the globe. The former familiarizes students with cultural practices associated with different historical moments, and the latter with a wide range of national and regional traditions. Majors are required to select 200-level or higher courses that correspond to at least **three of the four time periods** and **three of the five regions** listed below. Since each course counts towards one time period and one region, the distribution requirements can be satisfied with as few as three courses.

Time Periods

- Ancient
- Medieval
- Early Modern
- Modern and Contemporary

Regions

- The Middle East (includes Western and Central Asia and North Africa)
- Sub-Saharan Africa
- Asia (includes China, Japan, India, South and Southeast Asia, and the Pacific)
- Europe and the U. S.
- Latin America and the Caribbean

Cognate Requirements. The 6 cognate credits (two courses) must include:

- One studio course (minimum 3 credits) at the 100 level or higher. This course may be taken at the School of Art & Design, the Residential College, or the Taubman College of Architecture and Urban Planning, and must be approved by an advisor.
- An additional advisor-approved course (minimum 3 credits) to be selected from a discipline related to a student's particular interest in art history.

Residency

15 of the required 30 elective credits must be taken in residence at Michigan or at off-campus sites directed by Michigan faculty. Courses directed to major requirements by exception can count toward the major residency requirement.

Distribution Policy

No course used to fulfill a major requirement may be used toward the **LSA Distribution Requirement**. In addition, courses in the HISTART subject area may not be used toward the Distribution Requirement.

Honors

To qualify for the **History of Art Honors Plan**, a student must have an overall GPA of at least 3.4 and a GPA of at least 3.5 in the major. Honors students in History of Art enroll in HISTART 498 and 499 during the fall and winter terms of the senior year, and are required to write a senior Honors thesis.

History of Art Minor

The History of Art minor offers students an introduction to the discipline's approach to humanistic study of the things that cultures around the world have made, looked at, and endowed with meaning. It will sharpen students' skills in visual and historical analysis and interpretation.

Effective Winter 2018

Exclusions:

A minor in History of Art is not open to students with a major in History of Art.

Advising

A major or minor in the History of Art is developed in consultation with a History of Art advisor. Appointments are scheduled through the departmental website: <http://lsa.umich.edu/histart/undergraduates/advising-appointments.html>

Majors and minors must consult with an advisor at least once a year.

The History of Art Website. For further information about the curriculum, student resources, faculty and staff, departmental events, and Helicon (the undergraduate art history association), please consult the History of Art website: www.lsa.umich.edu/histart/

Prerequisites

None.

Requirements

Minimum Credits: 15

A minimum of 15 credits (or five courses) in the History of Art. The selected courses must include:

1. 6 credits at the 200 level.
2. 6 credits at the 300 level or higher, including a 3-credit seminar.
3. 3 additional credits at the 200 level or higher.
4. completion of the History of Art Distribution Requirements for minors.

Distribution Requirements: There are two kinds of distribution requirements, one focusing on historical time periods and the other on different regions of the globe. The former familiarizes students with cultural practices associated with different historical moments, and the latter with a wide range of national and regional traditions. Minors in the History of Art are required to select 200-level or higher courses that correspond to at least **two of** the four time periods and **two of** the five regions listed below. Since each course counts towards one time period and one region, the distribution requirements can be satisfied with as few as two courses.

Time Periods

- Ancient
- Medieval
- Early Modern
- Modern and Contemporary

Regions

- The Middle East (includes Western and Central Asia and North Africa)
- Sub-Saharan Africa
- Asia (includes China, Japan, India, South and Southeast Asia, and the Pacific)
- Europe and the U. S.
- Latin America and the Caribbean

History of Law and Policy Minor

The Minor in History of Law and Policy provides a supplemental program of historically grounded study that will benefit pre-professional students who plan to attend law school or pursue graduate work or immediate careers in policy-related fields. The minor also does not draw any sharp distinction between its law and policy sides but rather emphasizes the dynamic intersections between these categories, and emphasizes the real-world consequences of the law in society and culture and embeds formal constitutional doctrine in historical context. The electives explore the intersections between law and society, the state and citizenship, the relationship between social movements and rights, matters of regulation and governance, and the categories of politics and culture, to name but a few of the recurring themes.

Effective Winter 2023

Exclusions:

The minor in History of Law and Policy is not open to students electing the minor in Law, Justice, and Social Change; or the minor in Crime and Justice.

Advising

Appointments with History advisors are scheduled online from the department's webpage: www.lsa.umich.edu/history/undergraduate. Students should see an advisor as soon as they decide on their major or minor.

The History Department offers a three-tiered advising structure.

Tier 1: Faculty Advisors from the History Department's Undergraduate Committee

- declaring a history major - obtaining general advice about the nature, purpose, and utility of a history degree
- recommending a faculty mentor
- approving study abroad and transfer credit
- declaring an academic minor in History

To make an appointment, go to <http://lsa.umich.edu/history/undergraduates/advising.html>.

Tier 2: The Assistant Director of Undergraduate Studies

- obtaining general advice about the requirements for the major
- checking progress towards the major or minor
- completing the graduation checklist and release

To make an appointment, go to <http://lsa.umich.edu/history/undergraduates/advising.html>.

Tier 3: Individual Faculty Mentors

- obtaining approval for a survey sequence and a major theme
- getting advice about course selection
- obtaining advice about career planning

Students generally meet with a Tier 2 advisor for help in selecting a mentor, but all subsequent advising will be done by that individual professor.

Faculty who go on leave will designate a substitute, and inform all their mentees of the temporary change.

Students must arrange appointments directly with their mentors, and are expected to do so at least once a term. It is the student's responsibility to take the initiative in setting up these meetings.

Prerequisites

None.

Requirements

Minimum Credits: 15

A minimum of five courses and 15 credits is required. At least three of the five courses must be at the 300-level or higher.

Core Course

Select *at least one* of:

- HISTORY 217, Topics in the History of Human Rights
- HISTORY 235: Law and Social Justice
- HISTORY 315: American Constitutional History
- HISTORY 335 / AMCULT 385 / LATINOAM 385: Immigration Law. Critical Approaches to Contemporary Issues
- HISTORY 366: Crime and Drugs in Modern America (F17)

Electives

A minimum of four courses (totaling at least 12 credits) selected in consultation with a history faculty advisor, selected from the list below. Core Courses not used to count toward the Core Course requirement may be used as electives.

The Regional Distribution requirement is satisfied by successfully completing courses in at least two world regions. A chronological, geographical, or topical focus is developed in consultation with a faculty advisor.

Other HISTORY Courses in History of Law and Policy:

- HISTORY 223 / ENVIRON 223: Trashed! A History of Garbage in the Modern World
- HISTORY 224 / ENVIRON 224 / PUBPOL 224: Global Nuclear Proliferation
- HISTORY 230: Humanities Topics in History, *section titled "Tracking Human Rights"*
- HISTORY 232: Interdisciplinary Topics in History, *section titled "History of Human Rights in Latin America"*
- HISTORY 237 / ENVIRON 237: Global Environmental History
- HISTORY 256 / JUDAIC 265: Introduction to Jewish Law. Sources, Legal History and

Legal Theory

- HISTORY 257 / JUDAIC 257: Ancient Law
- HISTORY 266: Twentieth-Century American Wars as Social and Personal Experience
- HISTORY 269 / JUDAIC 260 / RELIGION 260: Introduction to the Talmud and the Rabbis
- HISTORY 272 / AAS 262: The Modern Civil Rights Movement
- HISTORY 282: A History of the Economy (*only if taken Spring 2020 or later*)
- HISTORY 312 / POLSCI 362: History of European Integration
- HISTORY 322 / GERMAN 322: The Origins of Nazism
- HISTORY 324: Muslims in Contemporary Europe
- HISTORY 329: Social Science Topics in History, *section titled "Crime, Punishment, and the Politics of Prison" or "Law and Social Policy" (only if elected Fall 20 or later)*
- HISTORY 334: Pax Americana: The History of U.S. Empire (W19)
- HISTORY 345 / RCSSCI 357: History and Theory of Punishment
- HISTORY 346 / AMCULT 348: History of American Radicalism
- HISTORY 349 / LACS 349: Revolutionary Movements in Modern Latin America
- HISTORY 356 / AMCULT 331 / WGS 356 (WOMENSTD 356): Health in America. Patterns, Experiences, and Inequalities
- HISTORY 360: September 11
- HISTORY 363: The U.S. and the World Since 1945: Politics, Culture, and War in the American Century (F16)
- HISTORY 364: History of American Suburbia
- HISTORY 367: American Indian History (*only if elected WN14 or later*)
- HISTORY 368 / AMCULT 342 / WGS 360 (WOMENSTD 360): History of the Family in the U. S.
- HISTORY / WGS 370 (WOMENSTD 370) / AMCULT 375: Queer Histories of the United States, 1850 to the Present (*only if elected FA 19 or later*)
- HISTORY 374 / AMCULT 374: The Politics and Culture of the "Sixties"
- HISTORY 375 / WGS 375 (WOMENSTD 375): History of Witchcraft. The 1692 Salem Trials in Historical and Cross-Cultural Perspective
- HISTORY 376: Epidemics. Plagues and Cultures from the Black Death to the Present
- HISTORY 389: Armenians in Turkey
- HISTORY 399: Topics in History, *section titled "The Politics of Civil Liberties and Civil Rights"*
- HISTORY 407: Advanced Study in Comparative and Transnational History, *section titled "Gender, Sexuality, and International Human Rights Law" or "History of Inter-American Human Rights Law" (only if taken Fall 2017 or later)*
- HISTORY 426 / AMCULT 426: Skin/Masks: Violence and (De)Colonization
- HISTORY 411 / POLSCI 319: The Politics of Civil Liberties and Civil Rights
- HISTORY 415 / ASIAN 415: Chinese Legal History. Law and Society in Late Imperial and Modern China
- HISTORY 441: Topics in History: HistoryLabs I, *sections titled, "Immigration Law Research Lab" (only if taken Fall 2020 or later) or "Immigrant Justice Lab" (only if taken Fall 2020 or later)*
- HISTORY 443 / ISLAM 443 / MIDEAST 487: Modern Middle East History
- HISTORY 445: Topics in History, *section titled "What is Capitalism?"*
- HISTORY 466: Building American Empire: War, Politics, and Social Reform in the United States, 1901-1950
- HISTORY 477: Law, History, and the Dynamics of Social Change (*only if elected FA 15 or*

later)

- HISTORY 491: Topics in History: HistoryLabs 2, *section titled "Police Violence, Crime, Social Justice in MI" (only if elected FA 19 or later)*
- HISTORY 497: History Colloquium, *sections titled "K-12 Education History and Policymaking" or "Crime, Punishment, and the Politics of Prison"*

Electives Cross-listed with HISTORY

- AAS 262 / HISTORY 272: The Modern Civil Rights Movement
- AMCULT 331 / HISTORY 356 / WGS 356 (WOMENSTD 356): Health in America. Patterns, Experiences, and Inequalities
- AMCULT 342 / HISTORY 368 / WGS 360 (WOMENSTD 360): History of the Family in the U. S.
- AMCULT 348 / HISTORY 346: History of American Radicalism
- AMCULT 374 / HISTORY 374: The Politics and Culture of the "Sixties"
- AMCULT 375 / HISTORY / WGS 370 (WOMENSTD 370): Queer Histories of the United States, 1850 to the Present (*only if elected FA 19 or later*)
- AMCULT 385 / HISTORY 335 / LATINOAM 385: Immigration Law: Critical Approaches to Contemporary Issues
- ASIAN 415 / HISTORY 415: Chinese Legal History. Law and Society in Late Imperial and Modern China
- ENVIRON 221 / HISTORY 237: Global Environmental History
- ENVIRON 223 / HISTORY 223: Trashed! A History of Garbage in the Modern World
- ENVIRON 224 / HISTORY 224 / PUBPOL 224: Global Nuclear Proliferation
- GERMAN 322 / HISTORY 322: The Origins of Nazism
- ISLAM 443 / MIDEAST 487 / HISTORY 443: Modern Middle East History
- JUDAIC 257 / HISTORY 257: Ancient Law
- JUDAIC 260 / HISTORY 269 / RELIGION 260: Introduction to the Talmud and the Rabbis
- JUDAIC 265 / HISTORY 256: Introduction to Jewish Law. Sources, Legal History and Legal Theory
- LACS 349 / HISTORY 349: Revolutionary Movements in Modern Latin America
- LATINOAM 385 / HISTORY 335 / AMCULT 385: Immigration Law. Critical Approaches to Contemporary Issues
- MIDEAST 487 / ISLAM 443 / HISTORY 443: Modern Middle East History
- POLSCI 319 / HISTORY 411: The Politics of Civil Liberties and Civil Rights
- POLSCI 362 / HISTORY 312: History of European Integration
- PUBPOL 224 / ENVIRON 224 / HISTORY 224: Global Nuclear Proliferation
- RCSSCI 357 / HISTORY 345: History and Theory of Punishment
- RELIGION 260 / HISTORY 269 / JUDAIC 260: Introduction to the Talmud and the Rabbis
- WGS 356 (WOMENSTD 356) / HISTORY 356 / AMCULT 331: Health in America. Patterns, Experiences, and Inequalities
- WGS 360 (WOMENSTD 360) / HISTORY 368 / AMCULT 342: History of the Family in the U. S.
- WGS 370 (WOMENSTD 370) / HISTORY 370 / AMCULT 375: Queer Histories of the United States, 1850 to the Present (*only if elected FA 19 or later*)
- WGS 375 (WOMENSTD 375) / HISTORY 375: History of Witchcraft. The 1692 Salem Trials in Historical and Cross-Cultural Perspective

Other Electives:

- INTLSTD 401: International Studies Advanced Seminar, *section titled “Gender, Sexuality, and International Human Rights Law”*

100-level Electives

A maximum of one 100-level course may be applied toward the requirements for the minor.

- HISTORY 102: A History of the Present
- HISTORY 103: Introduction to History in the Humanities (*appropriate sections*)
- HISTORY 104: Introduction to History in the Social Sciences (*appropriate sections*)

Constraints

AP credit: AP credits may not be used to satisfy requirements of the minor.

Residency

Four of the five courses must be taken in-residence at the University of Michigan-Ann Arbor, or must count as in-residence credit (i.e., relevant courses taken through UM-sponsored CGIS programs abroad).

History of Law and Policy (Minor) (Fall 2018 - Fall 2022)

Effective Fall 2018

Exclusions:

The minor in History of Law and Policy is not open to students electing the minor in Law, Justice, and Social Change; or the minor in Crime and Justice; nor to students electing the major in Public Policy at the Gerald R. Ford School of Public Policy.

Advising

Appointments with History advisors are scheduled online from the department's webpage: www.lsa.umich.edu/history/undergraduate. Students should see an advisor as soon as they decide on their major or minor.

The History Department offers a three-tiered advising structure.

Tier 1: Faculty Advisors from the History Department's Undergraduate Committee

- declaring a history major - obtaining general advice about the nature, purpose, and utility of a history degree
- recommending a faculty mentor
- approving study abroad and transfer credit
- declaring an academic minor in History

To make an appointment, go to <http://lsa.umich.edu/history/undergraduates/advising.html>.

Tier 2: The Assistant Director of Undergraduate Studies

- obtaining general advice about the requirements for the major
- checking progress towards the major or minor
- completing the graduation checklist and release

To make an appointment, go to <http://lsa.umich.edu/history/undergraduates/advising.html>.

Tier 3: Individual Faculty Mentors

- obtaining approval for a survey sequence and a major theme

- getting advice about course selection
- obtaining advice about career planning

Students generally meet with a Tier 2 advisor for help in selecting a mentor, but all subsequent advising will be done by that individual professor.

Faculty who go on leave will designate a substitute, and inform all their mentees of the temporary change.

Students must arrange appointments directly with their mentors, and are expected to do so at least once a term. It is the student's responsibility to take the initiative in setting up these meetings.

Prerequisites

None.

Requirements

Minimum Credits: 15

A minimum of five courses and 15 credits is required. At least three of the five courses must be at the 300-level or higher.

Core Course

Select *at least one of*:

- HISTORY 217, Topics in the History of Human Rights
- HISTORY 235: Law and Social Justice
- HISTORY 315: American Constitutional History
- HISTORY 335 / AMCULT 385 / LATINOAM 385: Immigration Law. Critical Approaches to Contemporary Issues
- HISTORY 366: Crime and Drugs in Modern America (F17)

Electives

A minimum of four courses (totaling at least 12 credits) selected in consultation with a history faculty advisor, selected from the list below. Core Courses not used to count toward the Core Course requirement may be used as electives.

The Regional Distribution requirement is satisfied by successfully completing courses in at least two world regions. A chronological, geographical, or topical focus is developed in consultation with a faculty advisor.

Other HISTORY Courses in History of Law and Policy:

- HISTORY 223 / ENVIRON 223: Trashed! A History of Garbage in the Modern World
- HISTORY 224 / ENVIRON 224 / PUBPOL 224: Global Nuclear Proliferation
- HISTORY 230: Humanities Topics in History, *section titled "Tracking Human Rights"*
- HISTORY 232: Interdisciplinary Topics in History, *section titled "History of Human Rights in Latin America"*
- HISTORY 237 / ENVIRON 237: Global Environmental History
- HISTORY 256 / JUDAIC 265: Introduction to Jewish Law. Sources, Legal History and Legal Theory
- HISTORY 257 / JUDAIC 257: Ancient Law

- HISTORY 266: Twentieth-Century American Wars as Social and Personal Experience
- HISTORY 269 / JUDAIC 260 / RELIGION 260: Introduction to the Talmud and the Rabbis
- HISTORY 272 / AAS 262: The Modern Civil Rights Movement
- HISTORY 282: A History of the Economy (*only if taken Spring 2020 or later*)
- HISTORY 312 / POLSCI 362: History of European Integration
- HISTORY 322 / GERMAN 322: The Origins of Nazism
- HISTORY 324: Muslims in Contemporary Europe
- HISTORY 329: Social Science Topics in History, *section titled "Crime, Punishment, and the Politics of Prison" or "Law and Social Policy" (only if elected Fall 20 or later)*
- HISTORY 334: Pax Americana: The History of U.S. Empire (W19)
- HISTORY 345 / RCSSCI 357: History and Theory of Punishment
- HISTORY 346 / AMCULT 348: History of American Radicalism
- HISTORY 349 / LACS 349: Revolutionary Movements in Modern Latin America
- HISTORY 356 / AMCULT 331 / WGS 356 (WOMENSTD 356): Health in America. Patterns, Experiences, and Inequalities
- HISTORY 360: September 11
- HISTORY 363: The U.S. and the World Since 1945: Politics, Culture, and War in the American Century (F16)
- HISTORY 364: History of American Suburbia
- HISTORY 367: American Indian History (*only if elected WN14 or later*)
- HISTORY 368 / AMCULT 342 / WGS 360 (WOMENSTD 360): History of the Family in the U. S.
- HISTORY / WGS 370 (WOMENSTD 370) / AMCULT 375: Queer Histories of the United States, 1850 to the Present (*only if elected FA 19 or later*)
- HISTORY 374 / AMCULT 374: The Politics and Culture of the "Sixties"
- HISTORY 375 / WGS 375 (WOMENSTD 375): History of Witchcraft. The 1692 Salem Trials in Historical and Cross-Cultural Perspective
- HISTORY 376: Epidemics. Plagues and Cultures from the Black Death to the Present
- HISTORY 389: Armenians in Turkey
- HISTORY 399: Topics in History, *section titled "The Politics of Civil Liberties and Civil Rights"*
- HISTORY 407: Advanced Study in Comparative and Transnational History, *section titled "Gender, Sexuality, and International Human Rights Law" or "History of Inter-American Human Rights Law" (only if taken Fall 2017 or later)*
- HISTORY 411 / POLSCI 319: The Politics of Civil Liberties and Civil Rights
- HISTORY 415 / ASIAN 415: Chinese Legal History. Law and Society in Late Imperial and Modern China
- HISTORY 441: Topics in History: HistoryLabs I, *sections titled, "Immigration Law Research Lab" (only if taken Fall 2020 or later) or "Immigrant Justice Lab" (only if taken Fall 2020 or later)*
- HISTORY 443 / ISLAM 443 / MIDEAST 487: Modern Middle East History
- HISTORY 445: Topics in History, *section titled "What is Capitalism?"*
- HISTORY 466: Building American Empire: War, Politics, and Social Reform in the United States, 1901-1950
- HISTORY 477: Law, History, and the Dynamics of Social Change (*only if elected FA 15 or later*)
- HISTORY 491: Topics in History: HistoryLabs 2, *section titled "Police Violence, Crime, Social Justice in MI" (only if elected FA 19 or later)*

- HISTORY 497: History Colloquium, *sections titled “K-12 Education History and Policymaking” or “Crime, Punishment, and the Politics of Prison”*

Electives Cross-listed with HISTORY

- AAS 262 / HISTORY 272: The Modern Civil Rights Movement
- AMCULT 331 / HISTORY 356 / WGS 356 (WOMENSTD 356): Health in America. Patterns, Experiences, and Inequalities
- AMCULT 342 / HISTORY 368 / WGS 360 (WOMENSTD 360): History of the Family in the U. S.
- AMCULT 348 / HISTORY 346: History of American Radicalism
- AMCULT 374 / HISTORY 374: The Politics and Culture of the “Sixties”
- AMCULT 375 / HISTORY / WGS 370 (WOMENSTD 370): Queer Histories of the United States, 1850 to the Present (*only if elected FA 19 or later*)
- AMCULT 385 / HISTORY 335 / LATINOAM 385: Immigration Law: Critical Approaches to Contemporary Issues
- ASIAN 415 / HISTORY 415: Chinese Legal History. Law and Society in Late Imperial and Modern China
- ENVIRON 221 / HISTORY 237: Global Environmental History
- ENVIRON 223 / HISTORY 223: Trashed! A History of Garbage in the Modern World
- ENVIRON 224 / HISTORY 224 / PUBPOL 224: Global Nuclear Proliferation
- GERMAN 322 / HISTORY 322: The Origins of Nazism
- ISLAM 443 / MIDEAST 487 / HISTORY 443: Modern Middle East History
- JUDAIC 257 / HISTORY 257: Ancient Law
- JUDAIC 260 / HISTORY 269 / RELIGION 260: Introduction to the Talmud and the Rabbis
- JUDAIC 265 / HISTORY 256: Introduction to Jewish Law. Sources, Legal History and Legal Theory
- LACS 349 / HISTORY 349: Revolutionary Movements in Modern Latin America
- LATINOAM 385 / HISTORY 335 / AMCULT 385: Immigration Law. Critical Approaches to Contemporary Issues
- MIDEAST 487 / ISLAM 443 / HISTORY 443: Modern Middle East History
- POLSCI 319 / HISTORY 411: The Politics of Civil Liberties and Civil Rights
- POLSCI 362 / HISTORY 312: History of European Integration
- PUBPOL 224 / ENVIRON 224 / HISTORY 224: Global Nuclear Proliferation
- RCSSCI 357 / HISTORY 345: History and Theory of Punishment
- RELIGION 260 / HISTORY 269 / JUDAIC 260: Introduction to the Talmud and the Rabbis
- WGS 356 (WOMENSTD 356) / HISTORY 356 / AMCULT 331: Health in America. Patterns, Experiences, and Inequalities
- WGS 360 (WOMENSTD 360) / HISTORY 368 / AMCULT 342: History of the Family in the U. S.
- WGS 370 (WOMENSTD 370) / HISTORY 370 / AMCULT 375: Queer Histories of the United States, 1850 to the Present (*only if elected FA 19 or later*)
- WGS 375 (WOMENSTD 375) / HISTORY 375: History of Witchcraft. The 1692 Salem Trials in Historical and Cross-Cultural Perspective

Other Electives:

- INTLSTD 401: International Studies Advanced Seminar, *section titled “Gender, Sexuality, and International Human Rights Law”*

100-level Electives

A maximum of one 100-level course may be applied toward the requirements for the minor.

- HISTORY 102: A History of the Present
- HISTORY 103: Introduction to History in the Humanities (*appropriate sections*)
- HISTORY 104: Introduction to History in the Social Sciences (*appropriate sections*)

Constraints

AP credit: *AP credits may not be used to satisfy requirements of the minor.*

Residency

Four of the five courses must be taken in-residence at the University of Michigan-Ann Arbor, or must count as in-residence credit (i.e., relevant courses taken through UM-sponsored CGIS programs abroad).

History of Medicine and Health Minor

Why does the History Department offer a minor in the History of Medicine and Health? Because more than a recitation of names and dates, history provides insights into the issues of contemporary importance, be they the global response to Ebola or the politics of health care. Taught by the department's internationally renowned faculty in the history of medicine and health, courses in the History of Medicine and Health minor will be of interest to a wide range of students.

For students planning to attend medical school, graduate school in public health, or to pursue a broad range of related career paths in fields such as global health, nursing, medical anthropology, pharmacy, psychology, social work, and neuroscience, the minor will provide a valuable supplemental program of study. Courses will help students develop the empathy to envision past perspectives and experiences, and the ability to understand that current medical facts have changed and will continue to change.

Effective Winter 2023

Exclusions:

*A minor in History of Medicine and Health is not open to students with a major or any other minor in the Department of History, or students taking a Minor in **Science, Technology, and Society**.*

Advising

Appointments with History advisors are scheduled online from the department's webpage: <http://lsa.umich.edu/history/undergraduates/advising.html>. Students should see an advisor as soon as they decide on their major or minor.

The History Department offers a three-tiered advising structure.

Tier 1: Faculty Advisors from the History Department's Undergraduate Committee

- declaring a history major - obtaining general advice about the nature, purpose, and utility of

- a history degree
- recommending a faculty mentor
- approving study abroad and transfer credit
- declaring an academic minor in History

To make an appointment, go to <http://lsa.umich.edu/history/undergraduates/advising.html>.

Tier 2: The Assistant Director of Undergraduate Studies

- obtaining general advice about the requirements for the major
- checking progress towards the major or minor
- completing the graduation checklist and release

To make an appointment, go to <http://lsa.umich.edu/history/undergraduates/advising.html>.

Tier 3: Individual Faculty Mentors

- obtaining approval for a survey sequence and a major theme
- getting advice about course selection
- obtaining advice about career planning

Students generally meet with a Tier 2 advisor for help in selecting a mentor, but all subsequent advising will be done by that individual professor.

Faculty who go on leave will designate a substitute, and inform all their mentees of the temporary change.

Students must arrange appointments directly with their mentors, and are expected to do so at least once a term. It is the student's responsibility to take the initiative in setting up these meetings.

Prerequisites

None.

Requirements

Minimum Credits: 15

A minimum of 5 courses and 15 credits, distributed as follows

1. One of the following 4-credit survey courses:

- HISTORY 234: History of Medicine in the Western World from the 18th Century to the Present
- HISTORY 292: Ancient Medicine in Greece and Rome
- HISTORY 230: Humanities Topics, Health and Disease in Chinese History
- HISTORY 376: Epidemics: Plagues and Cultures from the Black Death to the Present
- HISTORY 285 / RCSSCI 275 / STS 275: Science, Technology, Medicine, and Society

Students may take more than one of these courses for minor credit but only one is required.

2. Additional Courses. Four additional courses (at least 12 credits), to be chosen in consultation with a faculty advisor. At least two of the four additional courses must be at the 300-level or higher and no more than one 100-level course may count towards the minor.

- Three of these courses must be History courses, including at least two from the Medicine

and Health minor approved History course list

- One of these courses must be from the approved list of cognate courses for the minor

Approved History Course List:

- HISTORY 214 / AMCULT 241: Health, Biology, and Society: What is Cancer? (F18)
- HISTORY 230: Humanities Topics in History, section titled “History of Psychology”
- HISTORY 231: Social Science Topics in History, section titled "Histories of Human Experimentation"
- HISTORY 232: Interdisciplinary Topics in History, section titled “Mental Health in Global History”
- HISTORY 242 / MIDEAST 201: Madness, Medicine, and Magic in the Middle East
- HISTORY 265 / PSYCH 265 / STS 265: Minds and Brains in America (only if taken FA18 or later)
- HISTORY 285 / RCSSCI 275 / STS 285: Science, Technology, Medicine, and Society
- HISTORY 291: A World History of Happiness: Care of the Self from the Greeks to the Sufis (only if taken WN 20 or later)
- HISTORY 305 / PSYCH 321 / STS 305: American Addictions (only if taken FA18 or later)
- HISTORY 233 (or 342 prior to Winter 2016): Sexually Transmitted Diseases from Syphilis to AIDS
- HISTORY 327: History of Sexuality (Winter 2019)
- HISTORY 334 / AMCULT 306 / ASIAN 391: Milk
- HISTORY 355 / AAS 355 / ANTHRCUL 355: Health and Illness in African Worlds
- HISTORY 356 / AMCULT 331 / WGS 356: Health in America: Patterns, Experiences, and Inequalities
- HISTORY 366: Crime and Drugs in Modern America (F17)
- HISTORY 391: Topics in European History, section titled “Medieval Catastrophes”
- HISTORY 398: The Black Death (F16)
- HISTORY 407: Advanced Study in Comparative and Transnational History, section titled "Transcultural and International Histories of Medicine, Disease, and the Body" (only if taken WN 20 or later)
- HISTORY 438 / ASIAN 408 / WGS 408: Women, Gender, and Health in East Asia
- HONORS 230: Honors Core in Social Science, section titled "Histories of Human Experimentation"

Approved Cognate Courses

- AMCULT / WGS 233: Genes and Society: Comparative and International Perspectives
- ANTHRCUL 327 / RCSSCI 327 / STS 327 / WGS 307: Critical Theory in Medicine and Healing
- ANTHRCUL 337: Death, Dying, and the Afterlife
- ANTHRCUL 341 / STS 341: The Globalization of Biomedicine
- ANTHRCUL 342 / ANTHR BIO: 342, Nature/Culture Now!
- ANTHRCUL 344 / STS 344: Medical Anthropology
- ANTHRCUL 352: Anthropology of the Body
- PUBHLTH 200: Health and Society: Introduction to Public Health
- SOC 230: Sociology of Suffering
- SOC 302: Health and Society: An Introduction to Sociology
- SOC 330: Population Problems

- SOC 346: Sociology of the Body
- SOC 473: Reproductive Health and Justice
- SOC 474: Social Inequalities in Health
- SOC 475: Health, Medicine, and Society
- SOC 476: Sociology of Bioethics
- SOC 477: Death and Dying
- WGS 220 / NURS 220 / STS 220: Perspectives in Women's Health
- WGS 239 / AMCULT 239: Gender, Sexuality, and Health in America
- WGS 300: Men's Health
- WGS 324 / ANTHRCUL 325: Childbirth and Culture
- WGS 365 / AAS 365: Global Perspectives on Gender, Health, and Reproduction
- WGS 400: Women's Reproductive Health
- WGS 405: Pharma, Pills, & Policy
- WGS 412: Reproductive Health Policy in a Global Context

Constraints

AP credit: AP credits may not be used to satisfy requirements of the minor.

Residency

Four of the five courses must be taken in-residence at the University of Michigan-Ann Arbor, or must count as in-residence credit (i.e., relevant courses taken through UM-sponsored CGIS programs abroad).

History of Medicine and Health (Minor) (Winter 2016 - Fall 2022)

Effective Winter 2016

Exclusions:

*A minor in History of Medicine and Health is not open to students with a major or any other minor in the Department of History, or students taking a Minor in **Science, Technology, and Society**.*

Advising

Appointments with History advisors are scheduled online from the department's webpage: <http://lsa.umich.edu/history/undergraduates/advising.html>. Students should see an advisor as soon as they decide on their major or minor.

The History Department offers a three-tiered advising structure.

Tier 1: Faculty Advisors from the History Department's Undergraduate Committee

- declaring a history major - obtaining general advice about the nature, purpose, and utility of a history degree
- recommending a faculty mentor
- approving study abroad and transfer credit
- declaring an academic minor in History

To make an appointment, go to <http://lsa.umich.edu/history/undergraduates/advising.html>.

Tier 2: The Assistant Director of Undergraduate Studies

- obtaining general advice about the requirements for the major
- checking progress towards the major or minor
- completing the graduation checklist and release

To make an appointment, go to <http://lsa.umich.edu/history/undergraduates/advising.html>.

Tier 3: Individual Faculty Mentors

- obtaining approval for a survey sequence and a major theme
- getting advice about course selection
- obtaining advice about career planning

Students generally meet with a Tier 2 advisor for help in selecting a mentor, but all subsequent advising will be done by that individual professor.

Faculty who go on leave will designate a substitute, and inform all their mentees of the temporary change.

Students must arrange appointments directly with their mentors, and are expected to do so at least once a term. It is the student's responsibility to take the initiative in setting up these meetings.

Prerequisites

None.

Requirements

Minimum Credits: 15

A minimum of 5 courses and 15 credits, distributed as follows

1. Take one of two 4-credit survey courses:
 - HISTORY 234: History of Medicine in the Western World from the 18th Century to the Present
 - or
 - HISTORY 284: Sickness and Health in Society: 1492 to the Present

Students may take both of these courses for minor credit but only one is required.

2. **Additional Courses.** Four additional courses (at least 12 credits), to be chosen in consultation with a faculty advisor. At least two of the four additional courses must be at the 300-level or higher.
 - Three of these courses must be from the approved list of courses that count for the Medicine and Health minor.
 - One of these courses must be a History distribution course that is not on the approved list.

Approved Course List:

- HISTORY 214 / AMCULT 241: Health, Biology, and Society: What is Cancer? (F18)
- HISTORY 230: Humanities Topics in History, *section titled "History of*

- Psychology*” or *Health and Disease in Chinese History*”
- HISTORY 231: Social Science Topics in History, *section titled "Histories of Human Experimentation"*
 - HISTORY 232: Interdisciplinary Topics in History, *section titled "Mental Health in Global History"*
 - HISTORY 242: Madness, Medicine, and Magic in the Middle East
 - HISTORY 265: Minds and Brains in America (*only if taken FA18 or later*)
 - HISTORY 285 / RCSSCI 275: Science, Technology, Medicine, and Society
 - HISTORY 291: A World History of Happiness: Care of the Self from the Greeks to the Sufis (*only if taken WN 20 or later*)
 - HISTORY 292: Ancient Medicine in Greece and Rome.
 - HISTORY 305 / PSYCH 321: American Addictions (*only if taken FA18 or later*)
 - HISTORY 329: Social Science Topics in History, *section titled "Pollution and Disease in Early Modern Europe"*
 - HISTORY 339 / ASIAN 365 / CLCIV 339: Doctors in the Ancient World
 - HISTORY 233 (or 342 prior to Winter 2016): Sexually Transmitted Diseases from Syphilis to AIDS
 - HISTORY 327: History of Sexuality (Winter 2019)
 - HISTORY 355 / AAS 355 / ANTHRCUL 355: Health and Illness in African Worlds
 - HISTORY 356/AMCULT 331: Health in America: Patterns, Experiences, and Inequalities
 - HISTORY 366: Crime and Drugs in Modern America (F17)
 - HISTORY 376: Epidemics: Plagues and Cultures from the Black Death to the Present
 - HISTORY 391: Topics in European History, *section titled "Medieval Catastrophes"*
 - HISTORY 398: The Black Death (F16)
 - HISTORY 407: Advanced Study in Comparative and Transnational History, *section titled "Transcultural and International Histories of Medicine, Disease, and the Body" (only if taken WN 20 or later)*
 - HISTORY 496: History Colloquium, *section titled "Medicine and Health in U.S. Culture since 1875"*
 - HISTORY 497: History Colloquium, *section titled "Medicine and Health in U.S. Culture since 1875"*
 - AAS / HISTORY / ANTHRCUL 355: Health and Illness in African Worlds
 - AMCULT 241 / HISTORY 214: Health, Biology, and Society: What is Cancer? (F18)
 - ANTHRCUL / HISTORY / AAS 355: Health and Illness in African Worlds
 - ASIAN 365 / HISTORY / CLCIV 339: Doctors in the Ancient World
 - CLCIV / HISTORY 339 / ASIAN 365: Doctors in the Ancient World
 - HONORS 230: Honors Core in Social Science, *section titled "Histories of Human Experimentation"*
 - RCSSCI 275 / HISTORY 285: Science, Technology, Medicine, and Society

Constraints

AP credit: AP credits may not be used to satisfy requirements of the minor.

Residency

Four of the five courses must be taken in-residence at the University of Michigan-Ann Arbor, or must count as in-residence credit (i.e., relevant courses taken through UM-sponsored CGIS programs abroad).

History of Philosophy

The History of Philosophy Minor has been discontinued as of Winter 2020.

Effective Fall 2019

Exclusions:

A minor in Philosophy is not open to students with a major in Philosophy.

Advising

PLEASE NOTE: The History of Philosophy Minor has been discontinued as of Winter 2020. Students wishing to pursue a minor in Philosophy must develop a specific plan for its completion in consultation with the department's designated advisor. Appointments are scheduled through the on-line scheduling system available on the department's web page: <http://lsa.umich.edu/philosophy/undergraduates/advisor-appointments.html>

Grade Policies

No course will count toward the minor unless the student receives a grade of C- or better. This includes all courses including prerequisites, required courses, and electives.

Prerequisites

Any 100- or 200-level course other than PHIL 180, 201, 296 (logic courses) 288, 289.

Requirements

Minimum Credits: 15

COMMON REQUIREMENTS FOR ALL PHILOSOPHY ACADEMIC MINORS:

1. **At least one course at the 400-level**, other than formal methods (PHIL 413, 414)
2. **A minimum of 15 credits of Philosophy**, at least 9 of which (including the required 400-level course) must be taken in residence.
3. No course will count toward the minor unless the student receives a grade of C- or better.

SPECIFIC REQUIREMENTS FOR HISTORY OF PHILOSOPHY (Effective Fall 2012):

- i. Either PHIL 345, 361, 366, 367 or 383
- ii. PHIL 288 (W18), 289 (W18), 388, or 389
- iii. One additional course from: PHIL 288 (W18), 289 (W18), 323 (W18), 386 (W18), 388, 389, 391 (F18), 392 (F18), 393 (F18), 405, 406, 458, 460, 461, 462, 464
- iv. One additional course from "iii" expanded to include: PHIL 371, 385, 433, 463, 466, 467, 474, 492

Residency

At least nine credits, including the required 400-level course, must be taken in residence.

Interdisciplinary Astronomy Minor

The minor in Interdisciplinary Astronomy is offered to students wishing to develop a broad overview of astronomy and understanding of science.

Effective Fall 2016

Exclusions:

The minors in Astronomy are not open to students with a major in Department of Astronomy.

Advising

Advising appointments are scheduled **online**.

Prerequisites

None.

Requirements

Minimum Credits: 15

1. *Stellar and Planetary Astrophysics*: ASTRO 101 or 115
2. *Galactic and Extragalactic Astrophysics*: ASTRO 102, 104, 105, or 142
3. *Astronomy Electives*: Six credits from ASTRO 200-level courses
4. *Cognate*: Three credits from a 300 or 400-level interdisciplinary course selected with approval of a department advisor.

Students are encouraged to take introductory Physics courses in their earlier course of study.

Interdisciplinary Astronomy Major

The major in Interdisciplinary Astronomy is offered to students wishing to develop a substantive expertise in astronomy, a practical understanding of science, and a basic ability to communicate science to the public. This major offers the opportunity to include contextual understanding of astronomy with respect to history, philosophy of science, and geoscience.

Effective Fall 2022

Exclusions:

Not open to those with a major in Astronomy and Astrophysics.

Advising

Information about scheduling advising appointments is available from the Department office.

Prerequisites

1. MATH 115, 116, and 215
2. PHYSICS 140/141 [or PHYSICS 160/161 or 135/136]
3. PHYSICS 240/241 [or PHYSICS 260/261 or 235/236]
4. PHYSICS 340 [or PHYSICS 360]

Requirements

Minimum Credits: 31

1. **Astronomy Core:** ASTRO 201, 361
2. **Astronomy Electives.** At least six credits from: ASTRO 401, 402, 403, 404, 405, 406, or 461.
3. **ULWR:** ASTRO 429 or ULWR of cognate plan
4. **Cognates.** A minimum of 15 credits of cognate courses as part of an interdisciplinary plan designed with the approval of the department advisor.

Distribution Policy

No course used to fulfill a major requirement may be used toward the **LSA Distribution Requirement**. In addition, courses in the ASTRO subject area may not be used toward the Distribution Requirement.

Honors

Students who are interested in scholarly research in astronomy and have a cumulative grade point average of 3.4 and a major GPA of at least 3.5, are encouraged to consider the Honors major. Students with a lower GPA may be admitted to Honors at the discretion of the department advisor. The Honors major requires writing a senior Honors thesis based on research done in collaboration with a faculty member. Interested students should consult with the department advisor by the beginning of their junior year.

Interdisciplinary Chemical Sciences (ICS) Major

The Interdisciplinary Chemical Sciences (ICS) major allows students the flexibility to supplement a core study of chemistry with courses in complementary fields. The intended audience for the major includes pre-health professional students, students interested in the relationship between science and societal concerns such as the environment or public policy, students interested in fields such as the philosophy of science or history of science where a sound background in a scientific field will provide a deeper level of engagement, and students interested in broadly interdisciplinary sciences not well represented in any individual department. This major can be effective preparation for graduate study in the sciences, graduate studies in an interdisciplinary area that might benefit from a strong science background, for medical, law, and business schools, or for direct entry into the job market.

Effective Fall 2022

Exclusions:

May not be elected by those pursuing a major in Chemical Science (or Chemistry), Biochemistry, or Biomolecular Science; or any of the Chemistry minors.

Advising

Students develop a plan for the major in consultation with a program advisor. Advisor approval of the plan for the major will be required when a student declares an ICS major. Those interested in a major in Interdisciplinary Chemical Sciences are urged to consult a program advisor during the freshman and/or sophomore years. Prospective majors are advised that further study in chemistry requires adequate performance in early chemistry courses (preferably B- or better) as well as in the mathematics and physics prerequisites. Students interested in an Honors degree should see the Chemistry Honors advisor. Appointments are scheduled online at www.umich.edu/~michchem/undergrad/index.html

Grade Policies

The department strongly recommends that a student earn a grade of at least C- in all CHEM courses and mathematics, physics, and biology courses that are prerequisite for subsequent elections. A major program grade point average of at least 2.0 is required; this includes chemistry courses, mathematics, physics, and biology prerequisites, and advanced electives that are part of a major plan. Prerequisites must be taken for a grade. Students must request any change in a chemistry course grade within the first fifteen University Business days of the first full term following the term in which the disputed grade was issued.

Prerequisites

- PHYSICS [125/127 or 135/136 or 139 or 140/141 or 150/151 or 160/161] or equivalent
- MATH 115 (or 120) and 116 (or 121), or an equivalent sequence

Requirements

Minimum Credits: 27

A minimum of 27 credits in Chemistry and 15 credits in cognates approved by the department advisor, as follows:

1. **Core Courses in Chemistry:**
 - CHEM 210/211;
 - CHEM 241/242 or CHEM 245/246/247;
 - CHEM 260;
 - CHEM 302 or 303.
2. **Electives.** 12 credits in CHEM, including at least three courses at the 300-level or above. At least one of these must be a 400-level lecture course.
3. **Theme Focus/Cognates:** 15 credits of course work at the 200-level or above, with at least two courses (6 credits) at the 300-level or above. The plan must be designed with prior approval of a chemistry department advisor.

The Interdisciplinary Chemical Sciences major allows students substantial flexibility to define the thematic focus of their study in cognate courses. The flexibility inherent in the ICS major comes with a responsibility: each student must work closely with an ICS department advisor to select the proper upper level chemistry classes and define a cognate course plan when declaring the ICS major. Possible cognate plans are posted on the department website. Example subplans include a focus on:

- Health and Life Sciences
- Philosophy
- Chemical Physics

- ICS at the interface between science and public policy

Constraints

Only 3 classes can be shared between ICS and a second major.

Distribution Policy

No course used to fulfill a major requirement may be used toward the **LSA Distribution Requirement**. In addition, courses in the CHEM subject area may not be used toward the Distribution Requirement.

Honors

Maintenance of a satisfactory GPA (3.4) in courses for the major, including prerequisites, and satisfactory completion of an Honors thesis (CHEM 499) based on the research done in CHEM 399 are required for Honors. All students, whatever their program, who are interested in an Honors degree should see the Chemistry Honors advisor (Room 1500 Chemistry) for approval for participation in the Junior-Senior Honors Program in Chemistry.

Teaching Certificate

Those seeking a B.S. or B.S. Chem. Degree with a teaching certificate in Chemistry must fulfill departmental as well as School of Education requirements. Students who plan to earn a teaching certificate with a teaching major or minor in Chemistry should contact the School of Education Teacher Education Office.

Interdisciplinary Physics Major

The University of Michigan has one of the country's premier programs for the training of undergraduate and graduate students in physics. The Physics Department has abundant facilities for instruction in physics and offers a wide variety of experimental and theoretical research programs open to undergraduate and graduate students.

Undergraduates concentrating in physics have several degree choices:

- **Physics (B.S.)**
- Interdisciplinary Physics (A.B. or B.S.)
- Honors Physics Program
- **Physics Minor**

A total of 60 credits of mathematics and natural science must be elected to receive the Bachelor of Science degree.

Interested undergraduates may also want to look into work in medical physics (a promising path for pre-med students) in the **Applied Physics program**, or in the **Engineering Physics program**.

The analytical and quantitative thinking skills you will develop as you work toward any of these degrees will be of great value in many different careers. Most physics majors at U-M follow one (or more) of three paths after graduation:

- graduate work in physics or another field

- employment in industry, software development, or associated field
- professional school in medicine, business, law, or associated area.

The goal of physics is to understand the behavior of matter and energy on every level, from the origins of the universe in the Big Bang to the interior of atoms in your computer screen. In seeking a pure understanding of how the world works, physicists have revolutionized our lives.

Completing an undergraduate degree in physics will give you a rich understanding of how the world works. It will also prepare you either for continued study in graduate or professional school, or for careers in industry, education, medicine, and finance.

Modern science is increasingly interdisciplinary. The Interdisciplinary Physics major allows students the flexibility to supplement their core study of physics with courses in complementary fields. This major can be effective preparation for graduate study in the sciences, for medical, law, and business schools, or for direct entry into the job market.

Because students pursuing the Interdisciplinary Physics degree have a wide variety of career goals, advising from a Physics department advisor is especially important.

It is intended that the flexibility allowed by this program should be used in a well thought out and effective way.

Effective Winter 2022

Advising

Students with any questions about courses or majors in Physics should speak with Physics department advisors.

Advising appointments can be scheduled in the Physics Student Services Office, 1440 Randall Lab [(734) 764-5539] or via the **online advising calendar**.

Grade Policies

PHYSICS 390/391 and the two additional 400 level Physics courses must be completed with a minimum grade of a C- in each course and a cumulative average of C or higher.

Prerequisites

- PHYSICS 140/141 and 240/241 (or PHYSICS 150/151 and 250/251, or PHYSICS 160/161 and 260/261); and
- PHYSICS 340 and 351.

Requirements

Minimum Credits: 26

At least 26 credits, including at least 11 in PHYSICS courses numbered 390/391 and above.

The major must include:

1. PHYSICS 390/391.
2. Two additional Physics courses at the 400 level*.

*PHYSICS 390/391 and these 400 level Physics course must be completed with a minimum

grade of a C- in each course and a cumulative average of C or higher.

3. Fifteen credits of courses as part of an interdisciplinary plan designed with the approval of a department advisor.

The courses selected should form a coherent program of study.

Examples of possible programs of study include:

- Statistics,
- Astrophysics,
- Philosophy,
- Cosmology,
- Economics and Finance,
- Quantum Computing,
- Biology,
- Chemical Physics,
- Nanotechnology,
- Medical Physics,
- Environmental Physics,
- Global Change,
- Geophysics,
- Mathematical Physics,
- Science Writing,
- Science Policy,
- Physics of Technology,
- Applied Physics,
- Computational Physics,
- Physics Education, or
- Industrial Physics.

Possible course selections in each of these areas can be viewed at: <http://www.lsa.umich.edu/physics/academics/undergraduateprogram/majorminorprograms>

Residency

The Physics Department requires no less than 12 credits toward the major program be completed in-residence. **In-residence:** Courses elected on the Ann Arbor campus or at off-campus sites directed by Ann Arbor faculty. This includes STDABRD, Camp Davis, Biological Station, Michigan-in-Washington

Distribution Policy

No course used to fulfill a major requirement may be used toward the **LSA Distribution Requirement**. In addition, courses in the PHYSICS subject area may not be used toward the Distribution Requirement.

Honors

Students who have a cumulative grade point average of at least 3.4 are encouraged to elect an Honors plan in Interdisciplinary Physics. In addition to the regular departmental requirements

for the major, candidates for Honors must elect an additional three credits of PHYSICS from courses numbered 401 and above which are not otherwise required and elect an additional 3 credit course as part of the cognate program. They must also complete a senior Honors thesis based on research (PHYSICS 496/497) done under the supervision of a faculty member. Some students in this degree line are pursuing interdisciplinary or dual degrees. Students wishing to complete an Honors senior thesis with a faculty member outside the Physics Department must meet with a department advisor for prior approval. (*Note: PHYSICS 415 will not count toward a PHYSICS Honors Major*).

Teaching Certificate

LSA students may earn an A.B. or B.S. in Interdisciplinary Physics with a focus on teacher certification through the College of LSA and School of Education. Students who wish to earn a secondary teaching certificate in physics should schedule a physics advising appointment before applying to the SOE certification program through the Office of Undergraduate Admissions website. (Note: Students are encouraged to apply their sophomore year. The application deadline is October 15.)

Intergroup Relations Education Minor

The Program on Intergroup Relations (IGR) is a social justice education program on the University of Michigan's Ann Arbor campus. As a joint venture of the College of Literature, Science, and Arts and the Division of Student Affairs, IGR works proactively to promote understanding of intergroup relations inside and outside of the classroom. Multidisciplinary courses offered by IGR are distinguished by their experiential focus, teaching philosophy, and incorporation of dialogical models of communication.

Effective Winter 2021

Advising

IGR has a tiered advising system where students initially meet with peer advisors who provide guidance and advising. If questions persist or cannot be answered by the peer advising team, the program directors will meet with students as needed.

The IGR program assistant will help with administrative tasks such as formally declaring students and verifying when students complete the minor.

Prerequisites

None.

Requirements

Minimum Credits: 15

- I. **Foundation Core Courses.** Choose either of the following classes:
 - A. ALA 122/ PSYCH 122/ SOC 122: Intergroup Dialogues
 - B. ALA 220 / SOC 218 / PSYCH 213: Foundations of Intergroup Relations or PSYCH 218 (*only until WN21*)

Both courses provide the foundational theory and pedagogy of the minor and students should

choose one core course. Intergroup dialogues give students the beginning tools to work across difference. They learn introductory social science concepts about inequality and experience conflict by working across difference. The Foundations of Intergroup Relations course gives students a solid overview of historical and contemporary structures of inequality, and examines the theory behind how social identity groups form, and how bias develops (prejudice, stereotyping, and discrimination). Both courses also explore how people develop an understanding of their own social identity group membership, how groups are impacted by privilege and power dynamics, and how to develop advocacy for groups to which one does not belong.

- II. **Praxis Core Courses** emphasize praxis, the engagement of theory with practice and reflection. Choose one of the following tracks:
- A. **The Facilitative Leadership Track** (7 credits) prepares students to lead others in addressing the demographic and democratic challenges posed by inequality. The practice focus occurs in the classroom, where students lead others in intergroup dialogue.
 - ALA 320 / SOC 320 / PSYCH 310: Processes of Intergroup Dialogues Facilitation
 - ALA 321 / SOC 321 / PSYCH 311: Practicum in Facilitating Intergroup Dialogues
 - ALA 270 ALA Topics: *Section titled, "Intergroup Dialogue Facilitation"*
 - B. **The Campus Communities and Research Track** (8 credits) allows students to explore praxis in broader community and research contexts and prepares them to understand inequality and develop coalitions for social justice work.
 - **Statistics.** STATS 250 or SOC 210 or STATS 280.
Students may request to substitute another research methods class other than STATS 250 or SOC 210.
 - **Campus Community Course** (ALA 421 or ALA 324) prepares students to recognize when social identities play a role in inequalities both on and off campus, to intervene in constructive ways when this happens, and to learn to act as peer educators in community settings, including residence halls and other campus-based settings.
 - **IGR Research Practicum** (ALA 329) or **IGR Independent Study** (ALA 323) allows students to practice intergroup skills in a more traditional academic setting: the research laboratory, as they are deepening their intergroup learning through the research process.
- III. **Elective Course:** ALA 228 Conflict and Coexistence; ALA 248: Understanding Conflict through Int'l Dialogue; ALA 322 Advanced Practicum; ALA 324 Facilitation for Effective Leadership; ALA 471 Leading Community Building; ALA 421 Creating Inclusive Communities or other cognate. Students take at least one 3- or 4-credit course in another academic unit that complements the goals of the minor. Students may also propose additional courses for consideration. The criteria used for selection include: The course must address social identities and intergroup relations in some way, and the course should discuss issues of inequality, power, privilege, and oppression or should focus on leadership and social change. (See below list of approved electives from other departments.)

- IV. **IGR Senior Capstone:** ALA 429 / SOC 471 / PSYCH 411: IGR Senior Capstone: Social Justice in the Real World – an interdisciplinary experience to connect their learning throughout the minor. Students consider the broad national and global challenges facing their generation and examine them using real-world settings.

Intergroup Relations Education Approved Electives From Other Departments

- AAS 202: Introduction to Afro-Caribbean Studies
- AAS 248: Crime, Race, and the Law
- AAS 262 / HISTORY 272: Modern Civil Rights Movement
- AAS / WGS 328 (WOMENSTD 328): Women, Agency & Sexual Safety
- AAS / WGS 381 (WOMENSTD 381) / ENGLISH 380: Fictions and Feminisms
- AAS / WGS 443 (WOMENSTD 443): Pedagogy of Empowerment
- AAS 451: Law, Race, and the Historical Process, II
- ALA 228 / SOC 375 / PSYCH 312: Intergroup Conflict & Coexistence: Religion, Ethnicity, & Culture
- AMCULT / ARABAM 215 / MIDEAST 275: Introduction to Arab-American Studies
- AMCULT / NATIVAM 217: Introduction to Native American Studies
- AMCULT / WGS 240 (WOMENSTD 240): Introduction to Women's and Gender Studies
- AMCULT / FTVM / COMM / DIGITAL 334: Race and Video Games
- AMCULT / ASIANPAM 353 / HISTORY 454: Asians in American Film and Television
- AMCULT / WGS 411 (WOMENSTD 411): Rednecks, Queers, and Country Music
- ANTHRCUL 302 / WOMENSTD 302 / HISTART 302: Sex and Gender in Japan
- ANTHRCUL / LING 370: Language and Discrimination
- ARABAM / AMCULT 215 / MIDEAST 275: Introduction to Arab-American Studies
- ASIAN 334: Prejudice: India & US
- ASIAN 352: Gender, Sexuality, and Power in Premodern China
- ASIANPAM / AMCULT 353 / HISTORY 454: Asians in American Film and Television
- COMM / FTVM / AMCULT / DIGITAL 334: Race and Video Games
- COMM 428: Gender, Media, and the Law
- DIGITAL / COMM / FTVM / AMCULT 334: Race and Video Games
- EDUC 463: Web-Based Mentorship: Arab-Israel Conflict Simulation
- ENGLISH / WGS 315 (WOMENSTD 315): Women & Literature
- ENGLISH 316: Disability Studies
- ENGLISH 380 / AAS / WGS 381 (WOMENSTD 381): Fictions and Feminisms
- ENVIRON / ORGSTUDY 203: Activism
- FTVM / AMCULT / COMM / DIGITAL 334: Race and Video Games
- HISTART / ANTHRCUL / WGS 302 (WOMENSTD 302): Sex and Gender in Japan
- HISTORY 272 / AAS 262: Modern Civil Rights Movement
- HISTORY / LACS 349: Revolutionary Movements in Modern Latin America
- HISTORY 454 / AMCULT / ASIANPAM 353: Asians in American Film and Television
- INTLSTD 401: International Studies Advanced Seminar, *section titled "Women and Islam: The Politics of Representation"*
- LACS / HISTORY 349: Revolutionary Movements in Modern Latin America
- LING / ANTHRCUL 370: Language and Discrimination

- MIDEAST 275 / AMCULT / ARABAM 215: Introduction to Arab-American Studies
- ORGSTUDY / ENVIRON 203: Activism
- PSYCH 280: Introduction to Social Psychology
- PSYCH / WGS 291 (WOMENSTD 291): Introduction to the Psychology of Women and Gender
- PSYCH 312 / ALA 228 / SOC 375: Intergroup Conflict & Coexistence: Religion, Ethnicity, & Culture
- PSYCH 353: Social Development
- RCSSCI 360: Social Science Junior Seminar, *section titled "Transgender Politics and Community Action"*
- SM 421 / WOMENSTD 421: Gender and Sport
- SOC 345 / WGS 348 (WOMENSTD 348): Sociology of Sexuality
- SOC 346: Sociology of the Body
- SOC 354: Law & Society
- SOC 368: Criminology
- SOC 375 / ALA 228 / PSYCH 312: Intergroup Conflict & Coexistence: Religion, Ethnicity, & Culture
- SOC / WOMENSTD 447: Sociology of Gender
- SOC 458: Sociology of Education
- WGS (WOMENSTD) / AMCULT 240: Introduction to Women's and Gender Studies
- WGS 245 (WOMENSTD 245): Introduction to LGBT and Queer Studies
- WGS (WOMENSTD) / PSYCH 291: Introduction to the Psychology of Women and Gender
- WGS (WOMENSTD) / ANTHRCUL / HISTART 302: Sex and Gender in Japan
- WGS (WOMENSTD) / ENGLISH 315: Women and Literature
- WGS (WOMENSTD) / AAS 328: Women, Agency & Sexual Safety
- WGS 330 (WOMENSTD 330): Feminist Thought
- WGS 331 (WOMENSTD 331): Feminist Theoretical Perspectives in Gender & Health
- WGS 348 (WOMENSTD 348) / SOC 345: Sociology of Sexuality
- WGS (WOMENSTD) / AAS 381 / ENGLISH 380: Fictions and Feminisms
- WGS (WOMENSTD) / AMCULT 411: Rednecks, Queers, and Country Music
- WGS (WOMENSTD) / SM 421: Gender and Sport
- WGS (WOMENSTD) / AAS 443: Pedagogy of Empowerment
- WOMENSTD / SOC 447: Sociology of Gender

International Studies Major

The Program in International and Comparative Studies (PICS) seeks to be a focal point for the interdisciplinary study of issues that transcend borders. We encourage students and faculty to broaden their horizons while they deepen their knowledge of particular cultures and political, economic, and social contexts. We administer one of the fastest growing and largest undergraduate programs on campus in the form of both a **major** and minor as well as **fellowship support** for students.

Knowledge and insight pertaining to global affairs and different societies and cultures are more important than ever in today's interconnected world. A well-developed international perspective

contributes to personal intellectual growth, is an increasingly important component of America's civic culture, and is required for success in an expanding number of professions.

Subplans

- **International Security, Norms & Cooperation**
- **Political Economy & Development**
- **Comparative Culture & Identity**
- **Global Environment & Health**

The major in International Studies offers students the opportunity to take a set of courses across departments to bring multiple methods and concepts together to address global problems. The major is rigorous and offers a balanced approach between disciplinary depth and cross-disciplinary breadth.

It is an opportunity for students to create a curriculum that combines exposure to disciplinary depth and integrative coursework emphasizing successful interdisciplinary research. Our goal is to give students skills in moving among different units of analysis and different disciplinary approaches in order to understand, analyze, and ultimately help solve contemporary problems. International Studies students will be exposed to a rigorous curriculum emphasizing the use of multiple methods of analysis of such topics as terrorism, global health trends, human rights and refugees, cultural homogenization and hybridization, environmental and energy crises, transnational religious movements, and the spread of technology. The major will draw on methods developed in specific disciplines such as economics, sociology, psychology, comparative literature, political science, anthropology, and history, and some methods emerging from cross-disciplinary and inter-disciplinary fields.

Effective Winter 2021

Exclusions:

International Studies majors must declare a sub-plan. The sub-plan will be notated on the student's official transcript.

Advising

The International Studies Advisor will assist students in developing a program of study. Advising for the Honors plan is provided by the PICS Director and the PICS Honors Thesis advisor. For more information, see: www.ii.umich.edu/pics/undergraduates/advising.

Grade Policies

Students must earn a C- or better in all required PICS courses. Language requirement courses are not included in the minimum 34 credits required for the major nor in the major GPA.

Prerequisites

The following requirements must be met before declaration:

- INTLSTD 101: Introduction to International Studies (Grade of C- or better).
- Students declaring Political Economy & Development sub-plan must complete ECON 101 with a grade of C or better.
- Students must have started or completed 4th-term language proficiency.

Requirements

Minimum Credits: 34

PICS Language Requirement for the Major.

Sixth-term proficiency in a language other than English must be obtained prior to graduation; therefore, *students should begin the language sequence early.*

We believe that language study is a vital part of any liberal arts education and that students who major in international studies should be well prepared to work in environments overseas, or in companies or organizations that interact regularly with people from other countries. The PICS language requirement will not only be of benefit to the students in broadening their skills and their vision of the world but will also be an important signal to employers or graduate admissions committees about how our students are well-rounded and focused on the world and not just the United States.

Please see **PICS website** for details of and further information about the sixth-term language requirement.

See Sub-Plans for course requirements:

- **International Security, Norms & Cooperation (ISNC)**
- **Political Economy & Development (PED)**
- **Comparative Culture & Identity (CCI)**
- **Global Environment & Health (GEH)**

Honors

Students interested in the Honors subplan typically elect the Honors section of INTLSTD 101: *Introduction to International Studies*, and must complete INTLSTD 101 with a grade of B+ or better. Students who have declared a major in International Studies must have an overall GPA of 3.4, must complete all International Studies requirements for the major with a 3.4 or higher average in those courses, and complete a senior Honors thesis.

Students must earn C- or better in all required PICS courses.

During their **senior year**, students writing a thesis will enroll in INTLSTD 489 during Fall term and INTLSTD 499 during Winter term. The thesis will have a minimum length of 50 pages. Students are responsible for locating their own PICS faculty thesis advisor. Advisor and topic must be approved by PICS director.

An instructor will oversee the Honors subplan. This will include a class meeting with all Honors thesis students as a collective, at least twice per semester of their senior year, and once at the end of their junior year, to review requirements, answer questions, and discuss research practices and principles.

Each student will have an oral defense of the thesis in a meeting with the Honors thesis advisor, the Coordinator of Experiential, Independent, and Honors Education, plus one outside reader from the faculty.

Student grades on the thesis and Honors level will be determined by the PICS instructor in

consultation with the Honors thesis advisor.

Advising for the Honors Plan is provided by the Honors advisor and the PICS Honors Plan advisor.

Comparative Culture & Identify (CCI) (Sub-major)

In this sub-plan, students take courses that help them understand the richness of behavioral, literary, and artistic expressions reflecting the diversity of the human experience. Among topics covered are theories of culture, theories of identity, comparative belief systems and societal organizations, nationalism, comparative literary and film traditions, comparative ideologies, colonialism and post-colonialism, global arts, comparative gender studies, and cultural transmission. Students gain an ability to analyze historical and global trends in these topics, and to compare experiences of diverse communities and diverse individuals across time and space.

Effective Fall 2020

Exclusions:

The Comparative Culture and Identity (CCI) sub-plan is only available to declared International Studies majors and is not a major or minor. The sub-plan will be notated on the student's official transcript.

Advising

The International Studies Advisor will assist students in developing a program of study. Advising for the Honors plan is provided by the PICS Director and the PICS Honors Thesis advisor. For more information, see: www.ii.umich.edu/pics/undergraduates/advising.

Grade Policies

Students must earn a C- or better in all required PICS courses.

Prerequisites

The following requirements must be met before declaration:

- INTLSTD 101: Introduction to International Studies (Grade of C- or better).
- Students must have started or completed 4th-term language proficiency.

Requirements

Additional Pre-requisites and/or requirements are listed on the International Studies Major page.

1. **Language Requirement:** Sixth term proficiency.
2. **Core Courses (7 credits):**
 - INTLSTD 301: Topics in International Studies
 - INTLSTD 401: International Studies Advanced Seminar
3. **Methods of CCI (3 credits):** At least one course chosen from the following list:
 - ANTHRCUL 222: The Comparative Study of Cultures

- COMPLIT 322: Translating World Literatures
- SOC 310: Sociological Research Methods

Note: Completion of the Methods requirement is recommended prior to enrolling in INTLSTD 301.

4. **Regional Course (3 credits):** One geographic emphasis course devoted to a single world region or country that is related to foreign language of study.
5. **CCI Courses (12 credits):** Four courses, chosen from an approved list (see below), to gain knowledge in sub-plan area.
 - **Globalization and Culture:** One course must be chosen from the following short list:
 - COMPLIT 240: Literature Across Borders
 - GTBOOKS / COMPLIT 212: Great Books in World Literatures
 - INTLSTD 205 / HISTORY 101: What is History?
 - ROMLANG 253: The Mediterranean: History and Culture
 - At least one course must be at the 400 level.
 - Must include at least two academic subjects.

*Note: Complete term specific sub-plan course lists may be found on the **PICS courses website**.*

6. **Three electives (9 credits):** The electives are designed to allow students to further personalize their major. Students will elect three advanced courses which will be expected to build upon the theme of their sub-plans. The selected courses should thus contribute to the coherence of the student's overall concentration. Students may select additional sub-plan, regional, or relevant study abroad courses, however there is no preapproved list of electives. Because there is no preapproved list, students must seek and obtain the approval of elective courses - on a course-by-course basis - from a PICS advisor. It is strongly advised that this approval be obtained before taking the class.

CCI courses include, but are not limited to:

- AAS 200: Introduction to African Studies
- AAS 202: Introduction to Afro-Caribbean Studies (*only if elected FA19 or later*)
- AAS 206: Issues in African Studies, *section titled "Symbolic Language and Communications in West African Visual and Performing Arts"*
- AAS 208: Introduction to African Art, *section titled "Introduction to African Art and Visual Culture"*
- AAS 211: Dynamics of the Black Diaspora, *section titled "Religion and Revolution" (only if elected WN20 or later)*
- AAS 247 / HISTORY 247: Modern Africa
- AAS 317 / ENGLISH 307 / WGS 347: Threads: What Does Clothing Have to Do with Race, Culture, Politics, and the Environment?
- AAS 342: Hip Hop Africa
- AAS 355 / ANTHRCUL 355 / HISTORY 355: Health and Illness in African Worlds
- AAS 358: Black World Studies, *sections titled "Jewish Life in Colonial North Africa" "Theory and Practice of Visionary Organizing" "Problems in Society and Social Theory: Fanon"*
- AAS / ENGLISH 385: African Literature
- AAS 395 / GERMAN / HISTORY 396: Black Germany
- AAS 407 / HISTART 406: Looking at African Things
- AAS 422 / ANTHRCUL 411: African Cultures
- AAS 426: Cities in Contemporary Africa, *section titled "Cities in Contemporary Africa"*

- AAS 458: Issues in Black World Studies, *sections titled*
“Human Rights & LGBTI in Sub-Saharan Africa”
“Business & Politics in Developing Countries”
“Fighting with Human Rights – Africa”
“Anti-colonial Archaeology and Ancient History”
- AAS 495: Senior Seminar, *section titled “Justice in Africa”*
- ALA 210: Defining Critical Global Issues
- ALA 211: Addressing Critical Global Issues
- ALA 470: Applied Liberal Arts Topics, *section titled “Organizing for Global Justice”*
- AMAS 311: Arab American Studies and the Humanities, *sections titled “Art and Music of the Islamic World” or “Contemporary Film of the Islamic World”*
- AMCULT 311: American Culture and the Humanities, *section titled “Oceanic Visual Cultures”*
- AMCULT / ASIANPAM 325 / ENGLISH 388: Pacific Literary and Cultural Studies
- AMCULT 405: Topics in American Culture, *section titled “Border Country: Mexico, American and Country Music”*
- ANTHRARC / MATSCIE 281: Making Things: Three Million Years of Materials and Culture
- ANTHRARC 296: Archaeology Topics, *section titled “Making Things: Three Million Years of Materials and Culture”*
- ANTHRARC 386: Early Civilizations, *section titled “Early New World Civilization”*
- ANTHRCUL 222: Comparative Study of Cultures
- ANTHRCUL 237: Digital Futures: Media Technologies and Social Transformation Around the World
- ANTHRCUL / ISLAM / RELIGION 246: Anthropology of Religion
- ANTHRCUL 254: The Anthropology of Food
- ANTHRCUL / LING 272: Language in Society
- ANTHRCUL 256 / ENVIRON 256: Culture, Adaptation and Environment
- ANTHRCUL 298: Topics in Sociocultural Anthropology, *section titled “Transborder Trade”*
- ANTHRCUL 319: Latin American Society and Culture
- ANTHRCUL 325 / WGS 324 (WOMENSTD 324): Childbirth & Culture
- ANTHRCUL 328: Globalizing Consumer Cultures
- ANTHRCUL 333: Non-Western Legal Systems, I
- ANTHRCUL 344: Medical Anthropology
- ANTHRCUL 348 / INTLSTD 381 / MIDEAST 381: Anthropology of Islam
- ANTHRCUL 349: Indigenous Political Movements
- ANTHRCUL 355 / HISTORY 355 / AAS 355: Health and Illness in African Worlds
- ANTHRCUL 356: Topics in Sociocultural Anthropology, *section titled “In Sickness and in Health: Medical Anthropologies of Kinship, Relatedness, and the Human”*
- ANTHRCUL / LING 370: Language & Discrimination
- ANTHRCUL / LING 374: Language and Culture
- ANTHRCUL 404: Peoples and Cultures of Southeast Asia
- ANTHRCUL 411 / AAS 422: African Cultures
- ANTHRCUL 430 / HISTORY 430 / MIDEAST 480: History, Memory, and Silence in the Middle East
- ANTHRCUL 450: Anthropologies of Insurgency: Bandits, Rebels and Freedom Fighters
- ARMENIAN / HISTORY / MIDEAST 389: From Natives to Foreigners: Armenians in Turkey and the Diaspora
- ASIAN / HISTORY 205: Modern East Asia

- ASIAN / HISTORY 204: East Asia: Early Transformations
- ASIAN 210 / HISTORY 219: The Philippines: Culture and History
- ASIAN 257: Great Cities in Asia
- ASIAN / ENVIRON 258: Food and Drink of Asia
- ASIAN / RELIGION 305: Religion and Violence, *section titled "Investigating the Changing World Order"*
- ASIAN 307 / HISTORY 308 / RELIGION 307: Eat, Pray, Love: Devotional Traditions in South Asia
- ASIAN 342 / WGS 332: Gender and Power in Southeast Asia
- ASIAN 343: SE Asian Politics through the Arts
- ASIAN 348: Humanities Topics in SE Asian Studies, *section titled "Violence and Cultural Change in Southeast Asia"*
- ASIAN / ENVIRON / INTLSTD 351: Chinese Food in Crisis: Health, Ecology, and Identity in an Age of Globalization
- ASIAN / LING 367: Languages of Asia
- ASIAN / RCSSCI 371: Natural Disasters in East Asia
- ASIAN 389: Culture in East Asian Business, Past and Present
- ASIAN 408 / HISTORY 438 / WGS 408: Gender and Health in East Asia: Historical and Contemporary Perspectives
- BA 310: Cross-Cultural Business
- BA 319: Developing Global Competency
- BCS 450: In No Man's Land: Walls, Migrations and Human Trafficking in the Balkans and Mediterranean
- BL / BUSABRD 411: Cross Cultural Negotiation & Resolution
- CLARCH 375: Engaging Antiquity: Heritage, Museums, Media, Tourism, and Communities
- CLCIV 253: The Mediterranean: Classical Studies, *sections titled "The Mediterranean: Classics" or "The Mediterranean"*
- CLCIV 250: Topics in the Ancient World, *section titled "On the Edges of the Roman Empire: Armenians and Syrians in the Medieval Middle East"*
- CLCIV / HISTORY / WGS 303: Women in the Ancient Mediterranean
- CLCIV 392: Ancient Medicine in Greece & Rome
- COMM 306: Survey of Media Topics in the Humanities, *section titled "African Digital Cultures"*
- COMM 405: Seminar in Mass Media and Mass Communication, *section titled "Media, Culture, and Communication in Contemporary China"*
- COMM 439: Seminar in Journalistic Performance, *section titled "Global Threats to Press Freedom"*
- COMM 447: Women and Islam: The Politics of Representation
- COMM 455: Global Visual Cultures
- COMM 466: Global Digital Politics
- COMPLIT 212 / GTBOOKS 212: Great Books in World Literature
- COMPLIT 240: Literature Across Borders
- COMPLIT 300: Global Humanities
- COMPLIT 322: Translating World Literatures
- COMPLIT 350: The Text and Its Cultural Context, *section titled "Nineteenth Century Russian Prose and Beyond"*
- COMPLIT 376: Literature and Ideas, *section titled "Trauma and Healing in the 'Global South'"*

- COMPLIT 438: Comparative Studies in Film, *section titled "In No Man's Land: Walls, Migrations and Human Trafficking in the Balkans and Mediterranean"*
- COMPLIT 490: Comparative Cultural Studies, *section titled "Narratives of Immigration"*
- DANCE 342: Topics in World Dance
- ENGLISH 317: Literature & Culture, *section titled "Armenian Relationality: Diasporas Old, New, and in the Making"*
- ENGLISH 375: World Literatures in English
- ENGLISH / AMAS / ISLAM 378 / AMCULT 382: Muslim and Arab Literatures, *section titled "Palestinian and American Literature"*
- ENGLISH / AAS 385: African Literature
- ENVIRON 219 / MIDEAST 209: Food and Drink in the Middle East
- ENVIRON 256 / ANTHRCUL 256: Culture, Adaptation and Environment
- FRENCH 235: Advanced French, *section titled "Sociopolitical and Multicultural Issues"*
- FRENCH 240: French and Francophone Topics in Translation, *section titled "Global History of Hip-Hop"*
- FRENCH 444: Readings in French and Francophone Studies (in English Translation), *section titled "Jewish Life in Colonial North Africa"*
- FTVM / GERMAN 333: Fascist Cinemas
- FTVM 353: Film History: Post New Wave
- FTVM 366: Film, TV & Pop Cult, *section titled "Who Gets to Be an Auteur?: Ideology, Gendered Politics, and Filmmakers from the Global South"*
- FTVM 441: National Screens, *section titled "Introduction to Global Bollywood"*
- FTVM 455: Topics in Film, *section titled "Transnational Women's Cinema"*
- GERMAN 303: Ger Cult & Arts, *section titled "Czech, German Jewish"*
- GERMAN 391/ HISTORY / JUDAIC 386: The Holocaust, *section titled "Issues in Race & Ethnicity"*
- GERMAN 416: Seminar in German Studies, *section titled "Film and Media after Fascism"*
- GTBOOKS 212 / COMPLIT 212: Great Books in World Literature
- HISTART 253: The Mediterranean: Art History
- HISTART 285: Visual Culture in Islam
- HISTART 294: Special Topics, *section titled "Mapping Race + (Dis)placement"*
- HISTART 383: Modern Art in a Multi-Ethnic Asia
- HISTART 393: Topics in U.S. History, *sections titled "Art & Resistance"*
"Art and Resistance: Global Responses to Oppression"
"Arts of the Silk Roads"
"Art and Conflict in the Middle East, 1900-Present"
"Palestinian Art"
- HISTART 394: Special Topics in the Humanities, *sections titled "Living in a Material World: Europe and the Globe, 1492-c. 1800" or "The Art of Power in Colonial Latin America"*
- HISTART 406 / AAS 407: Looking at African Things
- HISTART 489: Special Topics in Art and Culture, *section titled "Soviet Visual Culture: 1917-1953"*
- HISTART 497: Upper-Level Seminar, *sections titled "Nomad Civilizations" or "Visualizing Race Comparatively"*
- HISTORY / INTLSTD / RELIGION / STS 209: Death, Immortality, and Afterlife
- HISTORY 216: World War I
- HISTORY 230: Humanities Topics in History, *sections titled*

- "War, Gender, Masculinity, Violence"*
- "Imagining Home in Socialist and Capitalist Societies"*
- "On the Edges of the Roman Empire: Armenians and Syrians in the Medieval Middle East"*
- "Jews in the Modern World"*
- "History, Power, and Violence in Putin's Russia"*
- HISTORY 241: America and Middle Eastern Wars
 - HISTORY 242 / MIDEAST 201 / STS 202: Madness, Medicine, and Magic in the Middle East
 - HISTORY 247 / AAS 247: Modern Africa
 - HISTORY / JUDAIC 290 / MIDEAST 287: Jews and Muslims
 - HISTORY 308 / ASIAN / RELIGION 307: Eat, Pray, Love: Devotional Traditions in South Asia
 - HISTORY 309: After Alexander: The Hellenistic Age in the Mediterranean and the Near East
 - HISTORY 328: Humanities Topics in History, *sections titled*
"Global History of the Jews of Spain"
"Jewish Life in Colonial North Africa"
"Jerusalem: One City, Three Faiths"
"Jews and Arabs in the Holy Land"
"Walking and Modern History: Land, Power, and Rights on Foot"
"Blackness and Jewishness: A History of Encounters"
"Women and Gender in the Cold War"
"From Baghdad to Amsterdam: Jews as a Minority Group in Medieval and Early Modern Times"
"Gender and Sexuality in Soviet History"
"Decolonizing Museums: Colonialism, Collections and Return"
 - HISTORY 333 / RUSSIAN 375: Literature and Empire: Nineteenth-Century Russian Prose
 - HISTORY / INTLSTD 348: Latin America: The National Period
 - HISTORY 355 / ANTHRCUL 355 / AAS 355: Health and Illness in African Worlds
 - HISTORY 358: Religion Magic and Mystery
 - HISTORY 384: Antisemitism and Philosemitism: Jews in Myth and Thought
 - HISTORY 399: Topics in History, *section titled "Islam and the West"*
 - HISTORY 407: Advanced Study in Comparative and Transnational History, *sections titled*
"Japan, Asia and WWII: Culture, History, Memory"
"Christianity and Politics in African History"
"Latin American Feminist Histories"
"Global Cultural Encounters Since 1800"
 - HISTORY 469: Precolonial SE Asia, *section titled "Problems in Early SE Asian History"*
 - HISTORY 481: Topics in European History, *sections titled "Soviet Visual Culture, 1910s-1940s: Pictures, Propaganda, Politics" or "Soviet Visual Culture: 1917-1953"*
 - HISTORY 487: Conversions and Christianities in the Early Modern World and Beyond
 - HISTORY 496: History Colloquium, *sections titled*
"Monks & Mystics: Spiritual Striving in Medieval Europe and Byzantium"
"The World of the Ship"
"Fascism from a Comparative Perspective"
 - HISTORY 497: History Colloquium, *sections titled "Making the Modern Mediterranean" or "Peace and Peace Making Movements in Islam"*
 - INTLSTD 270: INTLSTD Special Topics, *section titled "Digital Futures: Media Technologies and Social Transformation Around the World"*

- INTLSTD 348: Latin America: The National Period
- INTLSTD 351: Chinese Food in Crisis: Health, Ecology, and Identity in an Age of Globalization
- INTLSTD 384: International and/or Comparative Topics in the Humanities, *sections titled "Imagining Home in Socialist and Capitalist Societies" "Blackness and Jewishness: A History of Encounters" "Trauma and Healing in the 'Global South'"*
- INTLSTD 389: Topics in Comparative Culture and Identity
- INTLSTD 385: International and/or Comparative Topics in the Social Sciences, *sections titled "Indigenous Communities vs Globalization in South America" "Global Workers' Rights" "Modern Africa"*
- INTLSTD 401: International Studies Advanced Seminar, *sections titled "Human Rights & LGBTI in Sub-Saharan Africa" "Women and Islam: The Politics of Representation" "Fighting with Human Rights – Africa" "Christianity and Politics in African History" "Humanitarian Dilemmas" "Migration, Human Smugglings and Trafficking" "Business & Politics in Developing Countries"*
- INTLSTD 489: Topics in Comparative Culture and Identity
- ITALIAN 240 / AMCULT 280: Italian Mafia
- ISLAM 390: Topics in Islamic Studies, *section titled "Palestinian Art 1945-Present"*
- ISLAM 392: Humanities Topics in Islamic Studies, *section titled "Art and Music of the Islamic World"*
- ISLAM 433 / MIDEAST 433 / WGS 496: Gender and Representation in the Modern Middle East
- IOE 430: Global Cultural Systems Engineering
- JUDAIC 210 / HISTORY 258: Sources of Jewish History
- JUDAIC 218: Humanities Topics in Judaism, *sections titled "Policing and Civil Rights" or "Arts and Cultures of Central Europe: Czech, German Jewish"*
- JUDAIC 253: The Mediterranean: Jewish Studies, *section titled "Jerusalem: Once City, Three Faiths"*
- JUDAIC / MIDEAST 262 / RELIGION 261: The Bible and the Quran
- JUDAIC / MIDEAST / SLAVIC 281: Jews in the Modern World: Texts, Images, Ideas
- JUDAIC 318: Humanities Topics in Judaism, *sections titled "Jews and Arabs in the Holy Land" "Jerusalem: One City Three Faiths" "Blackness and Jewishness: A History of Encounters" "From Baghdad to Amsterdam: Jews as a Minority Group in Medieval and Early Modern Europe"*
- JUDAIC 340 / FRENCH 347 / MENAS 341 / MIDEAST 313: Jewish Life in Colonial North Africa
- JUDAIC 341: Jews and Arabs in the Holy Land
- JUDAIC 360 / MIDEAST 386: A Global History of Jews in Spain
- JUDAIC 417: Topics in Judaic Studies, *section titled "Jews of the Middle East"*
- LACS 455: Topics in Latin American Studies, *section titled "Latin America"*
- LATINOAM 405: Topics in Latina/o Studies, *section titled "Border Country: Mexico,*

American and Country Music"

- LING / ANTHRCUL 374: Language and Culture
- LING 497: Capstone Seminar, *section titled "Biology and Evolution of Language"*
- MEMS 360: Special Topics in Medieval and Early Modern Studies, *section titled "Baghdad to Amsterdam"*
- MIDEAST 202/ RELIGION 201: Introduction to Judaism, Christianity, Islam
- MIDEAST 203: Sports and Games in the Middle East
- MIDEAST / ISLAM / HISTART 285: Visual Culture Islam
- MIDEAST 291: Humanities Topics in Middle East Studies, *section titled "Sports and Games in the Middle East"*
- MIDEAST / ISLAM 319 / HISTORY 306: History of the Ottoman Empire: The "Classical Age", (ca. 1300-1600)
- MIDEAST / ISLAM 321: Jihad in History
- MIDEAST 344: Topics in Humanities, *section titled "Art and Music of the Islamic World"*
- MIDEAST 355 / CLARCH 327 / CLCIV 327 / RELIGION 326: Jews in the Roman Mediterranean: Archaeology, Religion, and Culture
- MIDEAST 391: Humanities Topics in Middle East Studies, *sections titled "Jews and Arabs in the Holy Land" "Blackness and Jewishness: A History of Encounters" "Jews and Arabs in the Holy Land"*
- MUSEUMS 498: Special Topics in Museum Studies, *section titled "Decolonizing Museums: Colonialism, Collections and Repatriation"*
- PHIL / COMPLIT 311: Topics in Philosophy and Literature, *section titled "Rights & Races"*
- PHIL 475: Topics in 20th Century Philosophy
- POLSCI 303: Religion and Politics
- POLSCI / JUDAIC / MENAS 353: The Arab-Israeli Conflict
- POLSCI 389: Topics, *section titled "Culture in East Asian Business, Past and Present"*
- POLSCI 436: Research Seminar on Middle East Politics and Society
- POLSCI 489: Advanced Topics in Contemporary Political Science, *sections titled "Business & Politics in Developing Countries" "The German and European Left" "Sociology of Latin America"*
- POLSCI 495: Undergraduate Seminar in Political Theory, *section titled "The Muslim Question"*
- PSYCH 477: Current Topics in Clinical Psychology, *section titled "Mental Health and Culture: National & International Perspectives"*
- PSYCH 487: Current Topics in Social Psychology, *section titled "The Psychology of Prejudice"*
- PSYCH 497: Current Topics in Personality and Social Contexts, *section titled "Psychology of the Arab/MENA Experience"*
- RCIDIV 305: The Literature of Environmental and Social Justice, *section titled "Leading a Good Life: Civility, Engagement & Justice"*
- RCIDIV 351: Special Topics, *section titled "Refugee Narratives"*
- RCHUMS 235: Topics in World Dance
- RCHUMS 315: Representation in the Arts, *section titled "Art & Music of the Islamic World"*
- RCHUMS 334: Special Topics in the Humanities, *sections titled "Latina/o Theatre for Social Change" "Art and Resistance: Global Responses to Oppression"*

- "Art and Conflict in the Middle East, 1900-Present"*
"Literature and Empire: Nineteenth-Century Russian Prose"
"Trauma and Healing in the 'Global South'"
- RCHUMS / ENVIRON 337: Children Under Fire: Narratives of Sustainability, *section titled "Narratives of Sustainability and Leadership"*
 - RCHUMS 357: What Art Means: Analysis and Interpretation, *section titled "Palestinian Art"*
 - RCLANG 324: Readings in Spanish, *sections titled "Travel and Movement: Exploring Cultural Landscapes and the Self"*
"Indigenous Activism in the Age of Globalization"
"Pigmentocracy, Racism and Social Stratification in Latin America"
"Women, Words and Images: Literary and Visual Dialogues on Gender in Latin America"
 - RCSSCI 250: Topics in Social Theory and Practice, *section titled "Global Workers' Rights"*
 - RCSTP 350: Topics in Social Theory and Practice, *sections titled "Nonviolence" or "Theory and Practice of Visionary Organizing"*
 - RCSTP 450: Advanced Topics in Social Theory and Practice, *section titled "Latin American Feminist Histories"*
 - RELIGION / AAS 307 / HISTORY 308: Eat, Pray, Love: Devotional Traditions in South Asia
 - REES 230: REES Topics in the Humanities, *section titled "Imagining Home in Socialist & Capitalist Societies"*
 - REES 405: Topics in REES, *section titled "Soviet Visual Culture, 1910s-1940s: Pictures, Propaganda, Politics"*
 - ROMLANG 498: Senior Seminar RLL, *section titled "AIDS, the Other Pandemic"*
 - RUSSIAN 358: Central Asia through Russian Eyes: Cultural Appropriation of an Exotic Land
 - SEAS 455: Topics SE Asian Study, *section titled "Introduction to Southeast Asian Studies"*
 - SI 430: Information Technology and Global Society
 - SLAVIC 225: Art & Culture of Central Europe, *section titled "Czech, German Jewish"*
 - SLAVIC 270 / JUDAIC 271: Contact and Conflict: Jewish Experience in Eastern Europe through Art, Film and Literature
 - SLAVIC 290: Studies E Euro Cult: Imagining Home in Socialist & Capitalist Societies
 - SLAVIC 470: Topics in Cultural Studies of Central, Eastern, and Southern Europe, *section titled "Soviet Visual Culture: 1917-1953"*
 - SOC 295: Topics in Sociology, *section titled "Nonviolence"*
 - SOC 350: Human Rights in the United Nations
 - SOC 422: Latin America
 - SOC 495: Topics in Sociology, *sections titled "Global and Local Connections: Understanding our World at Home and Abroad"*
"Sex, Love, and Marriage in Comparative Perspective"
"Gender and Family in East Asia"
"The German and European Left"
 - SOC 503: The Sociology of Race, Ethnicity, and Immigration
 - SPANISH 232: Second Year Spanish, *sections titled "The Hispanic World Through Food"*
"LGBTQA in the Hispanic World: Artistic & Cultural Manifestations"
"Artefactos y patrimonio cultural"
"Gender Equality in Latin America"
"Historia, instrumentos, balles y musica de Latinoamerica"
 - SPANISH 280: Conversation Through Spanish/Latin American Film, *sections titled "Borders and Boundaries" or "Visualizing Spanish contemporaneity through film: from Fascism to*

Democracy (1936-1982)"

- SPANISH 295: Introduction to Literature, Culture, and the Arts in the Hispanic World
- SPANISH 296: Special Topics in Hispanic Literatures and Cultures, *section titled "Fact and Fiction: Encounters Between Art and Science in the Hispanic World"*
- SPANISH 315: Contemporary Issues in the Caribbean and South America, *section titled "Climate Anxiety in Latin American Cultural Production"*
- SPANISH 342: Contemporary Latin American Culture
- SPANISH 373: Topics in Hispanic Culture, *sections titled "Bilingualism in the Spanish-Speaking World" "iGol!: The Culture of Soccer in Latin America" "World-Making: Art in Times of Global War"*
- SPANISH 385: Race and Ethnicity in the Hispanic World, *sections titled "The Language of Reggaeton" or "Race and Ethnicity in the Hispanic World: An Introduction"*
- SPANISH 423: Visual Cultures in the Hispanic World, *section titled "Visions from the Mangrove: The Afro-Pacific Imaginary in Colombia"*
- SPANISH 430: Advanced Studies in Hispanic Culture, *section titled "Comparative Topics in Spanish and Portuguese: Stories and Histories of Race in Brazil and Argentina"*
- SPANISH 439: Social Movements in Latin America/Spain
- SPANISH 442: Historical Memory and Testimony
- SPANISH 444: Nations and Nationalisms in the Hispanic World, *section titled "Revolutionary Nationalism and its Discontents in 20th-21st Century Mexico"*
- SPANISH 470: Colonial Latin America, *section titled "First Images of the Americas"*
- SPANISH 472: Indigenous Societies, *section titled "Indigenous Societies in the Andes"*
- SPANISH 473: Colonial/Postcolonial Studies in Latin-American Cultures, *sections titled "Colonial Discourse and Postcolonial Theory" or "Colonial Discourse and Postcolonial Theory"*
- WGS 213: Topics in Gender and the Humanities, *section titled "War, Gender, Masculinity, Violence"*
- WGS 313: Special Topics in Gender and the Humanities, *section titled "Gender and Sexuality in Soviet History"*
- WGS 324 (WOMENSTD 324) / ANTHRCUL 325: Childbirth & Culture
- WGS 331: Theory of Gender and Health
- WGS 345: Topic Gender Global, *sections titled "Gender in Premodern Japan and East Asia" "Sexual Violence and the State" "Women and the Cold War"*
- WGS / HISTORY 375: A History of Witchcraft: The 1692 Salem Trials in Historical and Cross-Cultural Perspective
- WGS 377: Topics in Gender and Social Science, *section titled "In Sickness and in Health: Medical Anthropologies of Kinship, Relatedness, and the Human"*
- WGS 400: Reproductive Health
- WGS 433: Advanced Topics in Gender, Race and Ethnicity in the U.S., *section titled "Border Country: Mexico, American and Country Music"*
- WGS 435: Advanced Topics in Gender in a Global Context, *sections titled "Transnational Women's Cinema" or "Latin American Feminist Histories"*
- WGS 462 / SPANISH 432: Gender, Sexuality, and Culture, *section titled "The theory of gaze in the Hispanic cinema: visual pleasure between monstrosity and normalization"*

Constraints

Students majoring in International Studies may only declare one sub-plan.

Distribution Policy

No course used to fulfill a major requirement may be used toward the **LSA Distribution Requirement**. In addition, courses in the INTLSTD subject area may not be used toward the Distribution Requirement.

Global Environment & Health (GEH) (Sub-Major)

In this sub-plan, students take courses that help them understand the latest knowledge on global trends in public health and in the natural environment as it intersects with the human experience. Among topics covered are global public health, comparative health policy, pandemics, comparative environmental policy-making, comparative history of mental health treatments across countries, environmental disasters, and climate change. Students gain an ability to analyze historical and global trends in these topics, and to compare experiences of diverse communities and peoples across time and space.

Effective Fall 2020

Exclusions:

The Global Environment and Health (GEH) sub-plan is only available to declared International Studies majors and is not a major or minor. The sub-plan will be notated on the student's official transcript.

Advising

The International Studies Advisor will assist students in developing a program of study. Advising for the Honors plan is provided by the PICS Director and the PICS Honors Thesis advisor. For more information, see: www.ii.umich.edu/pics/undergraduates/advising.

Grade Policies

Students must earn a C- or better in all required PICS courses.

Prerequisites

The following requirements must be met before declaration:

- INTLSTD 101: Introduction to International Studies (Grade of C- or better).
- Students must have started or completed 4th-term language proficiency.

Requirements

Additional Pre-requisites and/or requirements are listed on the International Studies Major page.

1. **Language Requirement:** Sixth term proficiency.
2. **Core Courses (7 credits):**
 - INTLSTD 301: Topics in International Studies

- INTLSTD 401: International Studies Advanced Seminar
3. **Research Methods Course (3 credits):** One research methods course chosen from the following list:
- ECON 309: Experimental Economics
 - ECON 401: Intermediate Microeconomic Theory
 - ECON 451: Intermediate Introduction to Statistics and Econometrics
 - POLSCI 300: Quantitative Empirical Methods of Political Science
 - POLSCI 391/CMPLXSYS 391: Introduction to Modeling Political Processes
 - POLSCI 490: Game Theory & Formal Models
 - SOC 210: Elementary Statistics
 - STATS 206: Introduction to Data Science
 - STATS 250: Introduction to Statistics & Data Analysis
 - STATS 280: Honors Introduction to Statistics and Data Analysis

Note: Completion of the Methods requirement is recommended prior to enrolling in INTLSTD 301.

4. **Regional Course (3 credits):** One geographic emphasis course devoted to a single world region or country that is related to foreign language of study.
5. **GEH Courses (12 credits):** Four courses, chosen from an approved list (see below), to gain knowledge in sub-plan area.
- At least one course must be at the 400 level.
 - Must include at least two academic subjects.

*Note: Complete term specific sub-plan course lists may be found on the **PICS courses website**.*

6. **Three electives (9 credits):** The electives are designed to allow students to further personalize their major. Students will elect three advanced courses which will be expected to build upon the theme of their sub-plans. The selected courses should thus contribute to the coherence of the student's overall concentration. Students may select additional sub-plan, regional, or relevant study abroad courses, however there is no preapproved list of electives. Because there is no preapproved list, students *must* seek and obtain the approval of elective courses - on a course-by-course basis - **from a PICS advisor**. It is strongly advised that this approval be obtained *before* taking the class.

GEH courses include, but are not limited to:

- AAS 261 / ENVIRON 209 / INTLSTD 210: Nature and Power: An Introduction to Political Ecology
- AAS 309: Global Health in African Contexts, *section titled "Global Health in Africa"*
- AAS 317 / ENGLISH 307 / WGS 347: Threads: What Does Clothing Have to Do with Race, Culture, Politics, and the Environment?
- AAS / ANTHRCUL / HISTORY 355: Health and Illness in African Worlds
- AAS 357: Environmental Governance and African Development, *section titled "Environmental Governance and African Development"*
- AAS 358: Topics in Black World Studies, *section titled "Med. Anthropologies of Kinship"*
- AAS / ANTHRCUL / WGS 365: Global Perspectives on Gender, Health & Reproduction
- AAS 426: Cities in Africa, *section titled "Cities in Contemporary Africa"*
- AAS 458: Issues in Black World Studies, *sections titled "Energy Matters: Environment, Culture, Power and the Oil State" or "Anti-colonial Archaeology and Ancient History"*
- ALA 210: Defining Critical Global Issues
- ALA 470: Applied Liberal Arts Topics, *section titled "Organizing for Global Justice"*
- AMCULT / HISTORY 284: Sickness & Health in Society: 1492 to the Present

- ANTHRCUL / WGS 212 (WOMENSTD 212) / NURS 225: The Global HIV/AIDS Epidemic
- ANTHRCUL 256 / ENVIRON 256: Culture, Adaptation and Environment
- ANTHRCUL 258: Honors Seminar in Anthropology, *section titled "Culture and Medicine"*
- ANTHRCUL 325 / WGS 324 (WOMENSTD 324): Childbirth & Culture
- ANTHRCUL / AAS 335 / WGS 339: Medical Anthropologies of Kinship, Relatedness, and the Human
- ANTHRCUL 344: Medical Anthropology
- ANTHRCUL 355 / HISTORY 355 / AAS 355: Health and Illness in African Worlds
- ANTHRCUL 356: Topics in Sociocultural Anthropology, *section titled "In Sickness and in Health: Medical Anthropologies of Kinship, Relatedness, and the Human"*
- ANTHRCUL 458: Topics in Sociocultural and Linguistic Anthropology, *section titled "Energy Matters: Environment, Culture, Power and the Oil State"*
- ARCH 423 / ENVIRON 370 / URP 423: Introduction to Urban and Environmental Planning
- ASIAN 280: Topics in Asian Studies, *section titled "Extractive Environments and Climate Change in Southeast Asia"*
- ASIAN / RCSSCI 371: Natural Disasters in East Asia
- ASIAN 408 / HISTORY 438 / WGS 408: Gender and Health in East Asia: Historical and Contemporary Perspectives
- CLIMATE 463: Air Pollution Meteorology
- CMLXSYS / ENVIRON / PUBPOL 250: Energy & Climate Change
- COMM 404: Special Topics in Mass Media and Mass Communication, *section titled "Poverty and the Environment in the US and Colombia: Learning through Podcast Creation"*
- COMPLIT 376: Literature and Ideas, *section titled "Trauma and Healing in the 'Global South'"*
- EARTH 201 / ENVIRON 209 / GEOG 201: Introduction to Environmental Science and Geography
- EARTH 206: How the Earth Works: The Water Cycle and Environment
- EARTH 219 / ENVIRON 229: Introduction to Environmental Science
- EARTH 222 / ENVIRON 232: Introduction to Oceanography
- EARTH / ENVIRON 262: Plants and People
- EARTH 314: Applied Geophysics
- EARTH / ENVIRON 333: The Inexhaustible Seas? Marine Resources and Environmental Issues
- EARTH / ENVIRON 380: Mineral Resources, Economics & the Environment
- EAS 518 / ENVIRON 438: Wildlife Ecology and Management
- EAS 503: Sustainable Sites and Historical Precedent
- ECON 466: Economics of Population
- EEB / ENVIRON 315: The Ecology and Evolution of Infectious Diseases
- ENVIRON 204: Under Pressure: Water Systems, Society, and the Environment
- ENVIRON 207: Sustainability and Society
- ENVIRON 209 / EARTH / GEOG 201: Introduction to Environmental Science and Geography
- ENVIRON 222: Introduction to Environmental Justice
- ENVIRON 229 / EARTH 219: Introduction to Environmental Science
- ENVIRON 232/ EARTH 222: Introduction to Oceanography
- ENVIRON 235: Environmental Economics & Policy

- ENVIRON / HISTORY 236: Environment and History in Preindustrial Europe
- ENVIRON / CMLXSYS / PUBPOL 250: Energy & Climate Change
- ENVIRON / ANTHRCUL 256: Culture, Adaptation and Environment
- ENVIRON / EARTH 262: Plants and People
- ENVIRON 270: Our Common Future: Ecology, Economics & Ethics of Sustainable Development
- ENVIRON 302: Topics in Environmental Social Science, *section titled "Energy Politics" or "Environ Governance African Dev" or "Extreme Events"*
- ENVIRON 306: Global Water
- ENVIRON / EEB 315: The Ecology and Evolution of Infectious Diseases
- ENVIRON 317: Conservation of Biological Diversity
- ENVIRON 320: Environmental Journalism
- ENVIRON 345 / POLSCI 331 / SOC 380: Environmental Public Opinion Analysis
- ENVIRON 365: International Environmental Policy
- ENVIRON / EARTH 380: Mineral Resources, Economics & the Environment
- ENVIRON 434: Poverty and the Environment in the US and Colombia: Learning through Podcast Creation
- ENVIRON 453: Tropical Conservation & Ecology
- ENVIRON 462: Topics in Environmental Social Science, *section titled "Food Policy"*
- ENVIRON 465: Interdisciplinary Environmental Topics, *sections titled, "Technologies and Policies for Decarbonization" or "Sustainable Sites and Historic Precedents"*
- ENVIRON 490: War and Environment: A Lethal Reciprocity
- GEOG / EARTH 201 / ENVIRON 209: Introduction to Environmental Science and Geography
- HISTORY / INTLSTD / RELIGON / STS 209: Death, Immortality, and Afterlife
- HISTORY 234 / STS 234: History of Medicine in the Western World from the 18th Century to the Present
- HISTORY 242 / MIDEAST 201: Madness, Medicine, and Magic in the Middle East
- HISTORY 297 / ASIAN 265: Health and Disease in Chinese History
- HISTORY / AMCULT 284: Sickness & Health in Society: 1492 to the Present
- HISTORY / INTLSTD / LACS 304 / WGS 306: Maternal and Infant Health in Latin American History
- HISTORY 328: HU History Topics, *section titled "Walking and Modern History: Land, Power, and Rights on Foot"*
- HISTORY / ANTHRCUL / AAS 355: Health and Illness in African Worlds
- HISTORY 407: Advanced Study in Comparative and Transnational History, *section titled "Global Histories of Medicine, Disease, and the Body"*
- HISTORY 497: History Colloquium, *section titled "Making the Modern Mediterranean"*
- HONORS 230: Honors Core SS, *section titled "Violent Environments: Oil, Development, and the Discourse of Power"*
- HS 225 / WGS 212: Global Perspectives on the HIV and AIDS Epidemic
- INTLSTD 351: Chinese Food in Crisis: Health, Ecology, and Identity in an Age of Globalization
- INTLSTD 384: International and/or Comparative Topics in the Humanities, *section titled "Trauma and Healing in the 'Global South'"*
- INTLSTD 385: International and/or Comparative Topics in the Social Sciences, *section titled "Population, Equity and Environmental Change"*
- INTLSTD 387: Topics in Global Environment and Health, *section titled "Implementation"*

Solutions for Global Health Equity

- INTMED 387: Implementation Solution for Global Health Equity
- MICRBIOL 450: Global Impact of Microbes
- NRE 501: Grad Experimental, *section titled, "Foundations of Sustainable Food Systems"*
- NURS 225 / ANTHRCUL / WGS 212 (WOMENSTD 212): The Global HIV/AIDS Epidemic
- NURS 421: Perspectives in Global Health
- PHIL 250: Changing the World
- POLSCI 309 / ENVIRON 307: Theoretical Perspectives on Environmental Change
- POLSCI 331 / ENVIRON 345 / SOC 380: Environmental Public Opinion Analysis
- POLSCI 389: Topics in Contemporary Political Science, *section titled "Politics of Public Health"*
- PSYCH 477: Current Topics in Clinical Psychology, *section titled "Mental Health and Culture: National and International Perspectives"*
- PUBHLTH 313: LGBTQ+ Health Promotion: Local and Global Strategies
- PUBHLTH 360: Community, Culture, and Social Justice (CCSJ) in Public Health
- PUBHLTH 381: Public Health Systems: Achievements and Challenges
- PUBHLTH 450: Critical Reflections on Global Public Health
- PUBPOL 250 / ENVIRON / CMPLXSYS: Energy & Climate Change
- PUBPOL 475: Topics in Public Policy, *section titled "Government Regulation of Industry & the Environment"*
- RCHUMS 334: Special Topics in the Humanities, *section titled "Trauma and Healing in the 'Global South'"*
- RCHUMS / ENVIRON 337: Children Under Fire: Narratives of Sustainability, *section titled "Narratives of Sustainability and Leadership"*
- RCIDIV 305: Literature in Environment and Social Justice
- RCSSCI / ASIAN 371: Natural Disasters in East Asia
- ROMLANG 498: Senior Seminar in RLL, *section titled "AIDS, the Other Pandemic"*
- SEAS / UC 215: Contemporary Social Issues in SE Asia
- SOC 380 / POLSCI 331 / ENVIRON 345: Environmental Public Opinion Analysis
- SOC 474: Social Inequalities in Health
- SOC 475: Introduction to Medical Sociology
- SPANISH 231: Second-Year Spanish, *section titled "Ecologia y Activismo"*
- STS / ENVIRON / HISTORY 237: Global Environmental History
- STS 399: Topics in Science, Technology, Medicine and Society, *section titled "Historical and analytical approaches for identifying and managing issues in global health interventions"*
- UC / SEAS 215: Contemporary Social Issues in Southeast Asia
- WGS (WOMENSTD) / ANTHRCUL 212 / NURS 225: The Global HIV/AIDS Epidemic
- WGS 324 (WOMENSTD 324) / ANTHRCUL 325: Childbirth & Culture
- WGS 331: Theory of Gender and Health
- WGS 342: Topics in Gender and Health, *section titled "Biomedical Knowledge: Behavior, Science and Gender"*
- WGS (WOMENSTD) / AAS 365: Global Perspectives on Gender, Health & Reproduction
- WGS 377: Topics in Gender and Social Science, *section titled "In Sickness and in Health: Medical Anthropologies of Kinship, Relatedness, and the Human"*
- WGS 400: Women's Reproductive Health

Constraints

Students majoring in International Studies may only declare one sub-plan.

Distribution Policy

No course used to fulfill a major requirement may be used toward the **LSA Distribution Requirement**. In addition, courses in the INTLSTD subject area may not be used toward the Distribution Requirement.

International Security, Norms & Cooperation (ISNC) (Sub-Major)

In this sub-plan, students take courses that help them reason about the international system of nation-states and of peoples with both competing and overlapping interests. Among topics covered are international relations, human rights, human security, international organizations, transnational social movements, war-making and peace-making, intra- and inter-state violence. Students gain an ability to analyze historical and contemporary global trends in these topics, and to compare experiences of nation-states and peoples across time and space.

Effective Fall 2020

Exclusions:

Students majoring in International Studies may only declare one sub-plan.

Advising

The International Studies Advisor will assist students in developing a program of study. Advising for the Honors plan is provided by the PICS Director and the PICS Honors Thesis advisor. For more information, see: www.ii.umich.edu/pics/undergraduates/advising.

Grade Policies

Students must earn a C- or better in all required PICS courses.

Prerequisites

The following requirements must be met before declaration:

- INTLSTD 101: Introduction to International Studies (Grade of C- or better).
- Students must have started or completed 4th-term language proficiency.

Requirements

Additional Pre-requisites and/or requirements are listed on the International Studies Major page.

1. **Language Requirement:** Sixth term proficiency.
2. **Core Courses (7 credits):**
 - INTLSTD 301: Topics in International Studies
 - INTLSTD 401: International Studies Advanced Seminar
3. **Research Methods Course (3 credits):** One research methods course chosen from the following list:

- ECON 309: Experimental Economics
- ECON 401: Intermediate Microeconomic Theory
- ECON 451: Intermediate Introduction to Statistics and Econometrics
- POLSCI 300: Quantitative Empirical Methods of Political Science
- POLSCI 391/CMPLXSYS 391: Introduction to Modeling Political Processes
- POLSCI 490: Game Theory & Formal Models
- SOC 210: Elementary Statistics
- STATS 206: Introduction to Data Science
- STATS 250: Introduction to Statistics & Data Analysis
- STATS 280: Honors Introduction to Statistics and Data Analysis

Note: Completion of the Methods requirement is recommended prior to enrolling in INTLSTD 301.

4. **Regional Course (3 credits):** One geographic emphasis course devoted to a single world region or country that is related to foreign language of study.
5. **ISNC Courses (12 credits):** Four courses, chosen from an approved list (see below), to gain knowledge in sub-plan area.
 - At least one course must be at the 400 level.
 - Must include at least two academic subjects.

*Note: Complete term specific sub-plan course lists may be found on the **PICS courses website**.*

6. **Three electives (9 credits):** The electives are designed to allow students to further personalize their major. Students will elect three advanced courses which will be expected to build upon the theme of their sub-plans. The selected courses should thus contribute to the coherence of the student's overall concentration. Students may select additional sub-plan, regional, or relevant study abroad courses, however there is no preapproved list of electives. Because there is no preapproved list, students *must* seek and obtain the approval of elective courses - on a course-by-course basis - **from a PICS advisor**. It is strongly advised that this approval be obtained *before* taking the class.

ISNC courses include, but are not limited to:

- AAS 246: Africa to 1850
- AAS / WGS 304: Gender and Immigration: Identity, Race, and Place, *section titled "Refugees of Unjust Worlds: Globalization, Gender and Nation"*
- AAS 356 / POLSCI 355: Democracy and Development in Africa
- AAS 358: Black World Studies, *section titled "Problems in Society and Social Theory: Fanon"*
- AAS 395: Germany and the Black Diaspora
- AAS 453: Southern Africa, *section titled "Culture, Class and Conflict in Southern Africa"*
- AAS 458: Issues in Black World Studies, *sections titled "Fighting with Human Rights – Africa" or "Political Violence in Africa"*
- AAS 495: Senior Seminar, *section titled "Justice in Africa"*
- AMCULT 204: Themes in American Culture, *section titled "Beyond Sea to Shining Sea: The United States and the Pacific World"*
- AMCULT / AMAS 356: Law and Border
- ANTHRCUL 237: Digital Futures: Media Technologies and Social Transformation Around the World

- ANTHRCUL 252: Law and Culture
- ANTHRCUL 333: Non-Western Legal Systems, I
- ANTHRCUL 346 / HISTORY 347: Latin America: The Colonial Period
- ANTHRCUL 450: Anthropologies of Insurgency: Bandits, Rebels and Freedom Fighters
- ANTHRCUL 456: Global Supply Chains: Anthropology of Transborder Trade
- ARMENIAN / HISTORY / MIDEAST 389: From Natives to Foreigners: Armenians in Turkey and the Diaspora
- ASIAN 259 / HISTORY 255: Modern India and S. Asia
- BCS 450: In No Man's Land: Walls, Migrations and Human Trafficking in the Balkans and Mediterranean
- BL 411: Cross-cultural Negotiation and Dispute Resolution
- CJS 451: Topics in Japan, *section titled "Empire, Colonialism and De/coloniality Across Modern Asian and Latin America"*
- CLCIV 375: War in Greek and Roman Civilizations
- COMM 405: Seminar in Mass Media and Mass Communication, *section titled "Media, Culture, and Communication in Contemporary China"*
- COMM 439: Seminar in Journalistic Performance, *sections titled "The Media's Role in the Rise and Fall of Democracies" or "Global Threats to Press Freedom"*
- COMM 447: Women and Islam: The Politics of Representation
- COMM 466: Global Digital Politics
- COMPLIT 376: Literature and Ideas, *section titled "Humanitarianism and Morals"*
- COMPLIT 438: Studies in Film, *section titled "In No Man's Land: Walls, Migrations and Human Trafficking in the Balkans and Mediterranean"*
- ECON 492: Capitalisms
- EDUC / MENAS 463: Arab-Israeli Conflict
- ENVIRON 365: International Environmental Policy
- ENVIRON 462: Topics in Environmental Social Science, *section titled "The Human Condition in the Anthropocene"*
- ENVIRON 490: War and Environment: A Lethal Reciprocity
- FTVM / GERMAN 333: Fascist Cinemas
- GERMAN 391 / HISTORY / JUDAIC 386: The Holocaust, *section titled "Issues in Race & Ethnicity"*
- GERMAN 449: Special Topics in English Translation, *section titled "German Politics in Europe Since 1945"*
- JUDAIC 218: Humanities Topics in Judaism, *section titled "Policing and Civil Rights"*
- HISTART 393: Undergraduate Seminar, *section titled "Art & Resistance"*
- HISTART 394: Special Topics in the Humanities, *section titled "The Art of Power in Colonial Latin America"*
- HISTORY 216: World War I
- HISTORY 230: Topics in History/HU, *sections titled "War, Gender, Masculinity, Violence" "Jews in the Modern World" "History, Power, and Violence in Putin's Russia"*
- HISTORY 231: Social Science Topics in History, *section titled "History of Terrorism"*
- HISTORY 254: Europe, 1648-Present: Legacies of War, Empire, and Revolution
- HISTORY 241: America and Middle Eastern Wars
- HISTORY 255 / ASIAN 259: Modern India and S. Asia

- HISTORY 287: Early Modern Spain and Portugal
- HISTORY 306 / ISLAM / MIDEAST 319: History of the Ottoman Empire: The "Classical Age", (ca. 1300-1600)
- HISTORY 307 / ISLAM / MIDEAST 320: Ottoman History II
- HISTORY 319: Europe Since 1945
- HISTORY 328: History Topics in the Humanities, *sections titled, "Jerusalem: One City, Three Faiths" or "Walking and Modern History: Land, Power, and Rights on Foot"*
- HISTORY 347 / ANTHRCUL 346: Latin America: The Colonial Period
- HISTORY / LACS 349: Revolutionary Movements in Modern Latin America
- HISTORY 384 / JUDAIC 388: Antisemitism
- HISTORY 407: Advanced Study in Comparative and Transnational History, *sections titled*
"Japan, Asia and WWII: Culture, History, Memory"
"Gender, Sexuality, & International Human Rights"
"Christianity and Politics in African History"
- HISTORY / INTLSTD 348: Latin America: The National Period
- HISTORY 472: Topics in Asian History, *section titled "US-China Relations in 20th C"*
- HISTORY 478: Topics in Latin American History, *section titled "The Colonial Period"*
- HISTORY 487: Conversions and Christianities in the Early Modern World and Beyond
- HISTORY 496: History Colloquium, *sections titled*
"The End of Empires: Decolonization After World War II"
"Fascism from a Comparative Perspective"
"The World of the Ship"
- HISTORY 497: History Colloquium, *sections titled*
"Making the Modern Mediterranean"
"History of Socialism"
"Peace and Peace Movements in Islam"
- HONORS 230: Honors Core SS, *section titled "Violent Environments: Oil, Development, and the Discourse of Power"*
- HS / WGS 404: Gender Based Violence: From Theory to Action
- INTLSTD 270: INTLSTD Special Topics, *sections titled*
"Digital Futures: Media Technologies and Social Transformation Around the World"
"International Migration and the Politics of Membership in a Globalizing World"
"Sociology of International Migration and Refugees"
- INTLSTD / HISTORY 348: Latin America: The National Period
- INTLSTD 370: INTLSTD Special Topics, *section titled "Indigenous Politics"*
- INTLSTD 385: International Topics in Social Sciences, *sections titled*
"Political Terror: State Repression of Human Rights"
"Indigenous Communities vs Globalization in South America"
"Politics of International Aid"
"International Organizations"
"Latin America: Colonial Period"
"Global Workers' Rights"
- INTLSTD 386: Topics in International Security, Norms and Cooperation
- INTLSTD 401: International Studies Advanced Seminar, *sections titled*
"Women and Islam: The Politics of Representation"
"Fighting with Human Rights – Africa"

“Migration, Human Smugglings and Trafficking”
 “History and Memory of Genocide”
 “Gender, Sexuality, & International Human Rights”
 “Christianity and Politics in African History”
 “Norm Diffusion: International, Regional & Public Policy”
 “The Politics of Debt”

- INTLSTD 470: INTLSTD Special Topics, sections titled
 “Sociology of World Politics: International Relations and Law”
 “German Politics in Europe Since 1945”
 “Strategic Thinking in World Politics”
 “The Art of Domination and Resistance”
 “Migration, Exile, and Political Rights”
- INTLSTD 486: Topics in International Security, Norms and Cooperation
- ISLAM / MIDEAST 321: Jihad in History
- JUDAIC 253: The Mediterranean: Jewish Studies, section titled “Jerusalem: One City, Three Faiths”
- JUDAIC / MIDEAST / SLAVIC 281: Jews in the Modern World: Texts, Images, Ideas
- JUDAIC 318: HU Topics in Judaism, section titled “Jews and Arabs in the Holy Land”
- JUDAIC 360 / MIDEAST 386: A Global History of the Jews of Spain
- JUDAIC 388 / HISTORY 384: Antisemitism
- JUDAIC 417: Topics in Judaic Studies, section titled “Jews of the Middle East”
- LACS 391: Latin American and Caribbean Studies Mini-Course in Social Science, section titled “Indigenous Politics”
- LACS 455: Topics in Latin America, sections titled “Empire, Colonialism and De/coloniality Across Modern Asia and Latin America” or “Latin America”
- MENAS / EDUC 463: Arab-Israeli Conflict
- MIDEAST 214: Collapse and Resilience: The Bronze Age in the Middle East, North Africa, and the Mediterranean
- MIDEAST / ISLAM 321: Jihad in History
- MIDEAST 326: The Arab-Israeli Conflict in Middle Eastern Literature and Film
- NAVSCI / UC 410: Evolution of Warfare
- PHIL / COMPLIT 311: Topics in Philosophy and Literature, section titled “Rights & Races”
- PHIL 355: Contemporary Moral Problems
- POLSCI 347: Politics and Society in Latin America
- POLSCI / JUDAIC / MENAS 353: The Arab-Israeli Conflict
- POLSCI 364: Public International Law
- POLSCI 368: Modern Warfare
- POLSCI 369: Politics of International Economic Relations
- POLSCI / INTLSTD 373: Data Science for International Studies
- POLSCI 378: The Historical Evolution of the Sovereign State System
- POLSCI 385: Political Science Special Topics Mini Course, section titled “Indigenous Politics”
- POLSCI 389: Topics in Contemporary Political Science, sections titled
 “Democracy and Development in Africa”
 “International Organization”
 “Politics of International Aid”

- "State Repression of Human Rights"*
"Authoritarian Politics"
- POLSCI 407: Marxism and 20th-Century Radicalism
 - POLSCI 436: Research Seminar on Middle East Politics and Society
 - POLSCI 447: The Politics of Human Rights
 - POLSCI 489: Advanced Topics in Political Science, *sections titled*
"German Politics in Europe Since 1945"
"Political Violence in Africa"
"Strategic Thinking in World Politics"
"Saving the World or Wasting Time: Social Movement Efficacy"
"The German and European Left"
"The Arts of Domination and Resistance"
"Sociology of Latin America"
 - POLSCI 495: Undergraduate Seminar in Political Theory, *sections titled*
"The Muslim Question"
"Women and War: Contemporary and Historical Perspectives"
"The Human Condition in the Anthropocene"
 - POLSCI 498: Undergraduate Seminar in International Politics, *sections titled*
"Norm Diffusion: International, Regional & Public Policy"
"The Politics of Debt"
"Sociology of World Politics: International Relations and Law"
"Conflict-Related Sexual Violence"
 - PUBPOL 474: Values & Ethics, *section titled "Social Inequality and Violence"*
 - PUBPOL 475: Topics in Public Policy, *section titled "Africa in Context: Diplomacy, Democracy, and Development"*
 - PUBPOL 480: Global Engagement Seminar: Costa Rica
 - PUBPOL 495: Policy Seminar, *section titled "Counterterrorism Policy and Strategy"*
 - RCLANG 324: Readings in Spanish, *sections titled "Pigmentocracy, Racism and Social Stratification in Latin America" or "Indigenous Activism in the Age of Globalization"*
 - RCSSCI 250: Topics in Social Theory and Practice, *section titled "Global Workers' Rights"*
 - RCSSCI 461: Senior Seminar, *section titled "Gender, Sexuality, & International Human Rights"*
 - RCSTP 350: Topics in Social Theory and Practice, *sections titled "Law and Border" or "Nonviolence"*
 - ROMLANG 400: Topics in Romance Languages and Literature, *section titled "Indigenous Politics"*
 - SCAND 331: Introduction to Scandinavian Civilization
 - SI 430: Information Technology and Global Society
 - SOC 208: Terrorism, Torture, and Violence
 - SOC 295: Topics in Sociology, *section titled "Nonviolence"*
 - SOC 350: Human Rights in the United Nations
 - SOC 422: Latin America
 - SOC 495: Topics in Sociology, *sections titled*
"Global and Local Connections: Understanding our World at Home and Abroad"
"Sociology of World Politics: International Relations and Law"
"Women & Migration"

"The German & European Left"

"Migration Exile & Poli Rights"

- SPANISH 280: Conversation Through Spanish/Latin American Film, *section titled "Visualizing Spanish contemporaneity through film: from Fascism to Democracy (1936-1982)"*
- SPANISH 296: Special Topics in Literature and Culture, *section titled "Como (no) hacer propaganda: el arte de la revolucion, la revolucion del arte"*
- SPANISH 315: Contemporary Issues in the Caribbean and South America, *section titled "Climate Anxiety in Latin American Cultural Production"*
- SPANISH 438: Political and Economic Thought in Latin America/Spain, *section titled "Slavery and Racial Capitalism in the Americas"*
- SPANISH 439: Social Movements in Latin America/Spain, *section titled "The 'Environmentalization' of Social Struggles in Latin America"*
- SPANISH 442: Historical Memory and Testimony, *section titled "Technologies of historical memory"*
- SPANISH 444: Nations and Nationalisms in the Hispanic World, *section titled "Revolutionary Nationalism and its Discontents in 20th-21st Century Mexico"*
- SPANISH 467: Literary and Artistic Movements in Latin America/Spain, *section titled "Art as Social Revolt"*
- SPANISH 473: Colonial/Postcolonial Studies in Latin-American Cultures, *sections titled "Latin American Wars" or "Colonial Discourse and Postcolonial Theory"*
- SPANISH 485: Case Studies in Peninsular Spanish and Latin American Literature, *section titled "Human Rights, Latin America, and the Movies"*
- UC 270: UC Special Topics, *sections titled "Addressing Critical Global Issues", and "GSP: Defining Critical Global Issues"*
- UC / NAVSCI 410: Evolution of Warfare
- WGS 213: Topics in Gender and the Humanities, *section titled "War, Gender, Masculinity, Violence"*
- WGS 250: Race, Gender and Nation
- WGS 345: Special Topics in Gender in a Global Context, *section titled "The Sexual Life of Colonialism and Empire"*
- WGS 346 (WOMENSTD 346): Special Topics in Gender in a Global Context, *section titled "Women's Policies and Society in India"*

Constraints

The International Security, Norms, and Cooperation (ISNC) sub-plan is only available to declared International Studies majors and is not a major or minor. The sub-plan will be notated on the student's official transcript.

Distribution Policy

No course used to fulfill a major requirement may be used toward the **LSA Distribution Requirement**. In addition, courses in the INTLSTD subject area may not be used toward the Distribution Requirement.

Political Economy & Development (PED)

(Sub-Major)

In this sub-plan, students take courses that help them reason about the global economy and about comparing the political economies of nation-states and regions. Among topics covered are international economics, the political economy of development, regulation of economies, international trade, political contestation over economics, government budgeting, comparative labor economics, and political-economic history. Students gain an ability to analyze historical and contemporary global trends in these topics, and to compare experiences of nation-states and peoples across time and space.

Effective Winter 2021

Exclusions:

The Political Economy and Development (PED) sub-plan is only available to declared International Studies majors and is not a major or minor. The sub-plan will be notated on the student's official transcript.

Advising

The International Studies Advisor will assist students in developing a program of study. Advising for the Honors plan is provided by the PICS Director and the PICS Honors Thesis advisor. For more information, see: www.i.umich.edu/pics/undergraduates/advising.

Grade Policies

Students must earn a C- or better in all required PICS courses.

Prerequisites

The following requirements must be met before declaration:

- INTLSTD 101: Introduction to International Studies (Grade of C- or better).
- ECON 101: Principles of Economics I (Grade of C or better).
- Students must have started or completed 4th-term language proficiency.

Requirements

Additional Pre-requisites and/or requirements are listed on the International Studies Major page.

1. **Language Requirement:** Sixth term proficiency.
2. **Core Courses (7 credits):**
 - INTLSTD 301: Topics in International Studies
 - INTLSTD 401: International Studies Advanced Seminar
3. **Research Methods Course (3 credits):** One research methods course chosen from the following list:
 - ECON 309: Experimental Economics
 - ECON 401: Intermediate Microeconomic Theory
 - ECON 451: Intermediate Introduction to Statistics and Econometrics I
 - POLSCI 300: Quantitative Empirical Methods of Political Science
 - POLSCI 391/CMPLXSYS 391: Introduction to Modeling Political Processes
 - POLSCI 490: Game Theory & Formal Models
 - SOC 210: Elementary Statistics

- STATS 250: Introduction to Statistics & Data Analysis
- STATS 280: Honors Introduction to Statistics and Data Analysis

Note: Completion of the Methods requirement is recommended prior to enrolling in INTLSTD 301.

4. **Regional Course (3 credits):** One geographic emphasis course devoted to a single world region or country that is related to foreign language of study.
5. **PED Courses (12 credits):** Four courses, chosen from an approved list (see below), to gain knowledge in sub-plan area.
 - At least one course must be an ECON course on approved sub-plan list. (Note: these courses may have additional prerequisites.)
 - At least one course must be at the 400 level.
 - Must include at least two academic subjects.

*Note: Complete term specific sub-plan course lists may be found on the **PICS courses website**.*

6. **Three electives (9 credits):** The electives are designed to allow students to further personalize their major. Students will elect three advanced courses which will be expected to build upon the theme of their sub-plans. The selected courses should thus contribute to the coherence of the student's overall concentration. Students may select additional sub-plan, regional, or relevant study abroad courses, however there is no preapproved list of electives. Because there is no preapproved list, students *must* seek and obtain the approval of elective courses - on a course-by-course basis - **from a PICS advisor**. It is strongly advised that this approval be obtained *before* taking the class.

PED courses include, but are not limited to:

- AAS / HISTORY 246: Africa to 1850
- AAS / HISTORY 247: Modern Africa
- AAS 357: Environmental Governance and African Development, *sections titled "Environmental Governance and African Development" or "Energy Matters: Environment, Culture, Power and the Oil State"*
- AAS 408: African Economies: Social and Political Settings
- AAS 458: Issues in Black World Studies, *section titled "Business & Politics in Developing Countries"*
- AAS 495: Senior Seminar, *section titled, "Contemporary Africa and the World"*
- ALA 210: Defining Critical Global Issues
- ALA 470: Applied Liberal Arts Topics, *section titled "Organizing for Global Justice"*
- AMCULT 281: How to Become a Billionaire: Business Tycoons and the Development of Western Capitalism
- ANTHRARC 281: Making Things: Three Million Years of Materials and Culture
- ANTHRCUL 298: Topics in Sociocultural Anthropology, *section titled "Goods and Goodness"*
- ANTHRCUL 317: Communism and Capitalism in Eastern Europe
- ANTHRCUL 328: Globalizing Consumer Cultures
- ANTHRCUL 332: Exchange, Commodities, and Money, *section titled "Gift, Commodity, and Money"*
- ANTHRCUL / HISTORY 346: Latin America: The Colonial Period, *section titled "Issues in Race and Ethnicity"*
- ANTHRCUL / INTLSTD 350: Corporations and Democracy
- ANTHRCUL 456: Global Supply Chains: Anthropology of Transborder Trade
- ANTHRCUL 458: Topics in Sociocultural and Linguistic Anthropology, *section titled*

"Energy Matters: Environment, Culture, Power and the Oil State"

- ASIAN / HISTORY 204: East Asia: Early Transformations
- ASIAN / HISTORY 205: Modern East Asia
- ASIAN 389: Culture in East Asian Business, Past and Present
- BA 310: Cross-Cultural Business
- CMPLXSYS 251: Computational Social Sciences
- COMM 404: Special Topics in Mass Media and Mass Communication, *section titled "Poverty and the Environment in the US and Colombia: Learning through Podcast Creation"*
- COMM 439: Seminar in Journalistic Performance, *section titled "The Media's Role in the Rise and Fall of Democracies"*
- ECON 340: International Economics
- ECON 396: Topics in Macroeconomics and Macroeconomic Policy, *section titled "The Economics of Government Intervention"*
- ECON 412: Topics in Macroeconomics, *section titled, "Global Imbalances and Government Policy"*
- ECON 441: International Trade Theory
- ECON 442: International Finance
- ECON 461: The Economics of Development I
- ECON 483: Positive Political Economy
- ECON 487: Urban Economics
- ECON 492: Capitalisms
- ECON 494: Topics in Economic History, *section titled "Global Economic History"*
- ECON 495: Seminar in Economics, *section titled "Applied Topics in International Trade"*
- ENVIRON 235: Environmental Economics & Policy
- ENVIRON 270: Our Common Future: Ecology, Economics & Ethics of Sustainable Development
- ENVIRON 302: Topics in Environmental Social Science, *section titled "Environ Governance African Dev"*
- ENVIRON 434: Poverty and the Environment in the US and Colombia: Learning through Podcast Creation
- HISTART 384: Principal Greek Archaeological Sites, *section titled " Living in a Material World Europe and the World 1492-1800"*
- HISTORY 240: The World Since 1492
- HISTORY 282: History of the Economy
- HISTORY 328: HU Topics in History, *section titled "Walking and Modern History: Land, Power, and Rights on Foot"*
- HISTORY / SOC 332 / POLSCI / REEES / SLAVIC 395: Russia and the Soviet Union: Reform, Revolution, and the Socialist Experiment
- HISTORY / INTLSTD 348: Latin America: The National Period
- HISTORY 443: Modern Middle East History, *section titled "From Napoleon to Trump"*
- HISTORY 496: History Colloquium, *sections titled "The End of Empires: Decolonization After World War II" or "The World of the Ship"*
- HISTORY 497: History Colloquium, *sections titled "Making the Modern Mediterranean" or "History of Socialism"*
- HONORS 230: Honors Core SS, *section titled "Violent Environments: Oil, Development, and the Discourse of Power"*
- INTLSTD 210: Nature and Power: An Introduction to Political Ecology

- INTLSTD 247: Modern Africa
- INTLSTD / HISTORY 348: Latin America: The National Period
- INTLSTD 384: International and/or Comparative Topics in the Humanities, *section titled, "Imagining Home in Socialist and Capitalist Societies"*
- INTLSTD 385: International Topics in Social Science, *see dept. for specific topic sections*
- INTLSTD 401: International Studies Advanced Seminar, *sections titled*
"Humanitarian Dilemmas"
"Migration, Human Smugglings and Trafficking"
"Business & Politics in Developing Countries"
"Origins of Economic Growth"
"Norm Diffusion: International, Regional & Public Policy"
"The Politics of Debt"
- INTLSTD 470: INTLSTD Special Topics, *section titled "German Politics in Europe Since 1945"*
- LACS 455: Topics in Latin American Studies, *section titled "Latin America"*
- MIDEAST 214: Collapse and Resilience: The Bronze Age in the Middle East, North Africa, and the Mediterranean
- MKT 315: International Marketing
- ORGSTUDY 440: Organizations in the Developing World
- POLSCI 340: Governments and Politics in Western Europe
- POLSCI 347: Politics and Society in Latin America
- POLSCI 348: Political Economy of Development
- POLSCI 353: The Arab-Israeli Conflict
- POLSCI 355: Democracy and Development in Africa
- POLSCI 369: Politics of International Economic Relations
- POLSCI 387: Comparative Analysis of Government Institutions
- POLSCI 389: Topics in Political Science, *sections titled "Politics of International Aid" or "Culture in East Asian Business, Past and Present"*
- POLSCI / REEES / SLAVIC 395 / HISTORY / SOC 332: Russia and the Soviet Union: Reform, Revolution, and the Socialist Experiment
- POLSCI 396 / SLAVIC 396 / REEES 396 / SOC 393: East Central Europe: Nationalism, Socialism, Democracy
- POLSCI 489: Advanced Topics in Contemporary Political Science, *sections titled*
"Business & Politics in Developing Countries"
"African Economies: Social and Political Settings"
"German Politics in Europe Since 1945"
"International Development"
"Sociology of Latin America"
- POLSCI 497: Undergraduate Seminar in Comparative and Foreign Government, *section titled "Development & the Quality of Governance"*
- POLSCI 498: Undergraduate Seminar in International Politics, *sections titled*
"Politics of International Finance"
"Norm Diffusion: International, Regional & Public Policy"
"The Politics of Debt"
- PPE 300: Introduction to Political Economy
- PUBPOL 475: Topics in Public Policy, *section titled "Africa in Context: Diplomacy, Democracy, and Development"*
- PUBPOL 495: Policy Seminar, *section titled "World Economic History"*

- RCSSCI / SOC 220: Political Economy
- RCSSCI 250: Topics in Social Theory and Practice, *section titled "Global Workers' Rights"*
- REEES / POLSCI / SLAVIC 395 / HISTORY / SOC 332: Russia and the Soviet Union: Reform, Revolution, and the Socialist Experiment
- REEES 396 / SLAVIC 396 / POLSCI 396 / SOC 393: East Central Europe: Nationalism, Socialism, Democracy
- SOC 295: Topics in Sociology, *section titled "Poverty and Inequality in the Global South"*
- SOC 315: Economic Sociology: Money, Markets, and Power
- SOC 422: Latin America
- SOC 460: Social Change
- STRATEGY 310: The World Economy
- STRATEGY 361: International Management
- STRATEGY 445: Base of the Pyramid: Business Innovation and Social Impact

Constraints

Students majoring in International Studies may only declare one sub-plan.

Distribution Policy

No course used to fulfill a major requirement may be used toward the **LSA Distribution Requirement**. In addition, courses in the INTLSTD subject area may not be used toward the Distribution Requirement.

International Studies Minor

The **Program in International and Comparative Studies (PICS)** seeks to be a focal point for the interdisciplinary study of issues that transcend borders. We encourage students and faculty to broaden their horizons while they deepen their knowledge of particular cultures and political, economic, and social contexts. We administer one of the fastest growing and largest undergraduate programs on campus in the form of both a **major** and **minor** as well as **fellowship support** for students. Students from all UM Schools and Colleges are encouraged to declare the minor.

Knowledge and insight pertaining to global affairs and different societies and cultures are more important than ever in today's interconnected world. A well-developed international perspective contributes to personal intellectual growth, is an increasingly important component of America's civic culture, and is required for success in an expanding number of professions.

The International Studies Minor is intended to be a rigorous program of study. It will be of interest to students prepared to make a serious investment in adding an international dimension to the instructional program associated with a disciplinary major.

The Minor in International Studies offers students an opportunity to add to their disciplinary major a program of study that includes the following:

1. attention to a country or world region;
2. interdisciplinary coursework devoted to a particular theme or topic of international relevance;
3. progress toward proficiency in a foreign language;

4. support for an education abroad experience; and
5. an innovative interdisciplinary seminar

Effective Winter 2021

Exclusions:

Not open to student with a major in International Studies.

Advising

The International Studies Advisor will assist students in developing a program of study. Students may visit the PICS website to learn more about advising: <http://www.ii.umich.edu/pics/undergraduates/advising.html>

Grade Policies

Students must earn a C- or better in all required minor courses. Language requirement courses are not included in the minimum 18 credits required for the minor nor in the minor GPA.

Prerequisites

Students must have started or completed 4th-term language proficiency.

Requirements

Minimum Credits: 18

Students are required to complete a minimum of 18 credits of course work, exclusive of language study. These courses must include the following:

1. A **"geographic" emphasis** composed of three courses devoted to a single world region (e.g., Africa, South Asia) or country (e.g., China, India). At least two of the three geographic courses must be 300-level or above.
2. A **"thematic" emphasis** composed of three courses devoted to a given theme or topic (e.g., international conflict and security, human rights, music and ethnomusicology). At least two of the three thematic courses must be 300-level or above.

Geographic and thematic course selections must be approved by the International Studies Advisor. Each three-course set must possess intellectual coherence, and there must also be a clear and logical connection between the focus of the selected geographic and thematic courses. The International Studies advisor will consult the Director of PICS and members of the PICS Advisory Committee for guidance in assessing a proposed program of study.

3. **INTLSTD 401: International Studies Advanced Topics Seminar** will be offered for students in the minor. This course should be taken after junior year and considered a capstone course for the minor.
4. The International Studies Advanced Topics Seminar is a variable content course designed to bring an interdisciplinary perspective to the study of a topic of international significance. Some seminars will be team-taught and some will be taught by faculty with International Institute Sponsored Appointments. Seminars may occasionally be taught by visiting international scholars.

PICS Language Requirement for the Minor. Sixth-term proficiency in a language other than English must be obtained prior to graduation; therefore, students should begin the language sequence early.

We believe that language study is a vital part of any liberal arts education and that students who major in international studies should be well prepared to work in environments overseas, or in companies or organizations that interact regularly with people from other countries. The PICS language requirement will not only be of benefit to the students in broadening their skills and their vision of the world but will also be an important signal to employers or graduate admissions committees about how our students are well-rounded and focused on the world and not just the United States.

Please see PICS website for details of and further information about the sixth-term language requirement.

Education Abroad. An education abroad experience is strongly encouraged. The International Studies advisor, in cooperation with the **Center for Global and Intercultural Study (CGIS)**, will assist students in identifying education abroad opportunities consistent with their needs and interests.

Limited funding will be made available to students in the International Studies Minor to encourage and facilitate participation in education abroad programs. Applications for these funds should demonstrate a connection between the overseas program and the student's area(s) of emphasis.

Although strongly encouraged, an education abroad experience is not required for the International Studies Academic Minor since some students may be unable to meet this requirement because of financial, family, or other considerations.

Constraints

One course can be "double-counted" and thus count for both the geographic and the thematic minor requirement. It is expected that most students will choose to double-count one course; those not choosing to do so will be required to complete 21 credits of coursework for the International Studies Minor.

The five or six geographic and thematic courses taken by a student must be from at least two academic disciplines. No more than one of the courses in the minor may be shared with requirements of a student's major program.

Islamic Studies Minor

The Islamic Studies Program (ISP) offers an interdisciplinary academic minor to students who wish

- a. to better understand the history and culture of the Islamic religion and Muslim societies and
- b. to gain insight into the political, economic, and social transitions taking place in this field.

This is the only academic program at U-M whose focus is solely on Islam. The focus of this academic minor is not restricted to a single world region and does not have any prerequisites.

Effective Winter 2016

Advising

Undergraduate advisors at the International Institute are available to meet with undeclared students who would like to learn more about the program, and also with current majors and minors who would like to discuss course selection, degree requirements, major/minor releases, and other matters of concern. Appointments can be made through our online appointment calendar **here**. Information on all of our undergraduate programs and Walk-In Advising hours can also be found on our website. The International Institute's Undergraduate Advising Office is currently located at 1080 South University Avenue, Suite 2660.

Prerequisites

None.

Requirements

Minimum Credits: 16

At least 16 credits, selected in consultation with and approved by the ISP undergraduate academic advisor, from the following.

1. MIDEAST 216: Introduction to Islam
2. Four additional courses on Islam or on Muslim societies
 - At least two courses which must be 300-level or above
 - At least two 3-credit courses covering two of the following regions:
 - Central Asia
 - East and Southeast Asia
 - Europe and the Americas
 - South Asia
 - Middle East and North Africa
 - Sub-Saharan Africa

General Islamic Studies: without specific regional focus

- HISTORY 243 / MENAS 243: Islamic World History
- HISTORY 428 / MIDEAST 413: The Rise of Islam
- HISTORY 429 / MIDEAST 432 / RELIGION 496 / WGS 471 (WOMENSTD 471): Gender & Sexuality in Pre-Modern Islam
- HISTORY 487 / MIDEAST 422 / RELIGION 467: Shi'ism: The History of Messianism and the Pursuit of Justice in Islamdom
- HISTART 285 / MIDEAST 285: Islamic Visual Culture
- MENAS 243 / HISTORY 243: Islamic World History
- MUSICOL 343: Music and Islam
- MIDEAST 216 / RELIGION 204: Introduction to Islam
- MIDEAST 285 / HISTART 285: Islamic Visual Culture
- MIDEAST 321: Jihad in History
- MIDEAST 322 / RELIGION 363: The Qur'an and Its Interpretations
- MIDEAST 323: The Prophet Muhammad in Islam
- MIDEAST 413 / HISTORY 428: The Rise of Islam
- MIDEAST 421 / RELIGION 465: Islamic Mysticism
- MIDEAST 422 RELIGION 467: Shi'ism: The History of Messianism and the

- Pursuit of Justice in Islamdom
- MIDEAST 423: Islamic Law
- MIDEAST 424: Islamic Intellectual History
- MIDEAST 432 / HISTORY 429 / RELIGION 496 / WGS 471 (WOMENSTD 471): Gender & Sexuality in Pre-Modern Islam
- MIDEAST 520: Readings in Classical Islamic Texts
- REEES / SOC 490 / WOMENSTD 492: Women & Islam
- RELIGION 204 / MIDEAST 216: Introduction to Islam
- RELIGION 363 / MIDEAST 322: The Qur'an and Its Interpretations
- RELIGION 465 / MIDEAST 421: Islamic Mysticism
- RELIGION 467 / MIDEAST 422 / HISTORY 487: Shi'ism: The History of Messianism and the Pursuit of Justice in Islamdom
- RELIGION 496 / MIDEAST 432 / HISTORY 429 / WGS 471 (WOMENSTD 471): Gender & Sexuality in Pre-Modern Islam
- SOC 490 / REEES 490 / WOMENSTD 492: Women & Islam
- WGS 471 (WOMENSTD 471) / MIDEAST 432 / HISTORY 429 / RELIGION 496: Gender & Sexuality in Pre-Modern Islam
- WOMENSTD 492 / SOC / REEES 490: Women & Islam

Middle East & North Africa

- AMCULT 368 / ARABAM 363 / MIDEAST 378 / WOMENSTD 368: Women and War in the Middle East
- ARABAM 363 / MIDEAST 378 / AMCULT 368 / WOMENSTD 368: Women and War in the Middle East
- ANTHRCUL 409: Peoples and Cultures of the Near East & North Africa
- GTBOOKS 296 / MIDEAST 219: Great Books of the Middle East
- HISTORY 290 / MIDEAST 287 / JUDAIC 290: Jews and Muslims
- HISTORY 306 / MIDEAST 319: History of the Ottoman Empire: The "Classical Age", (ca. 1300-1600)
- HISTORY 335: The Ottoman Enterprise
- HISTORY 442 / MIDEAST 417: The First Millennium of the Islamic Near East
- HISTORY 443 / MIDEAST 487: Modern Middle Eastern History
- JUDAIC 290 / MIDEAST 287 / HISTORY 290: Jews and Muslims
- MIDEAST 287 / HISTORY / JUDAIC 290: Jews and Muslims
- MIDEAST 219 / GTBOOKS 296: Great Books of the Middle East
- MIDEAST 315: Introduction to Arab Culture: Race, Ethnicity and Gender Issues
- MIDEAST 317: Turkey: Language, Culture, Society between East and West
- MIDEAST 319 / HISTORY 306: History of the Ottoman Empire: The "Classical Age", (ca. 1300-1600)
- MIDEAST 320 / HISTORY 307: History of the Ottoman Empire: The "Post-Classical Age", (ca. 1600-1922)
- MIDEAST 325: Introduction to Arabic Literature in Translation
- MIDEAST 378 / AMCULT / WOMENSTD 368 / ARABAM 363: Women and War in the Middle East
- MIDEAST 416: Ottoman Turkish Culture
- MIDEAST 417 / HISTORY 442: The First Millennium of the Islamic Near East
- MIDEAST 487 / HISTORY 443: Modern Middle Eastern History

- WOMENSTD 368 / MIDEAST 378 / ARABAM 363 / AMCULT 368: Women and War in the Middle East

Sub-Saharan Africa

Topics courses as approved by the ISP advisor

South Asia

- HISTORY 325 / MIDEAST 375 / ASIAN 324 / RELIGION 325 / MEMS 325: The History of Islam in South Asia

East and Southeast Asia

- ASIAN 464 / HISTORY 470 / RELIGION 464: From Mystic Saints to Holy Warriors: Islam in Southeast Asia

Central Asia

- HISTORY / MIDEAST / ASIAN / MENAS / REEES 340: From Genghis Khan to the Taliban: Modern Central Asia
- RUSSIAN 358: Central Asia through Russian Eyes: Cultural Appropriation of an Exotic Land

Europe & the Americas

- AMCULT / ARABAM 215 / MIDEAST 275: Introduction to Arab-American Studies
- AMCULT / ARABAM / WGS 235 (WOMENSTD 235): From Harems to Terrorists: Representing the Middle East in Hollywood Cinema
- ARABAM / AMCULT 236: Muslims in America
- HISTORY 324: Muslims and Contemporary Europe

Constraints

Language courses may not be counted toward the minor.

Residency

At least twelve of the sixteen required credits for the minor must be elected at the University of Michigan or at an overseas program associated with U-M.

Italian Major

Major in Italian allows students considerable flexibility in developing a program of study leading to competence in the Italian language and basic familiarity with Italian literature and culture.

Effective Fall 2022

Advising

The Department offers majors in French, Italian, Romance Languages & Literatures, and

Spanish. It offers minors in French, Italian, Portuguese, and Spanish.

Appointments are scheduled **online** or at the department office, 4108 Modern Languages Building, (734) 764-5344.

Prerequisites

ITALIAN 230, 232, 233, or 410, or the equivalent.

Requirements

Minimum Credits: 30

- A minimum of 30 credits in Italian courses numbered ITALIAN 235 and above.
- 12 credits must be conducted in the target language of Italian. Of these, at least one course must be at the 200-level beyond 233, at least one at the 300-level, and at least one at the 400-level.
- Three credits may be accepted from courses in a cognate field, selected in consultation with and approved by the department advisor.
- ITALIAN 410 (Italian for Spanish Speakers) does not count toward the Italian requirements for the major.

Residency

A minimum of 15 of the required 30 credits must be taken either in residence or through a study abroad program affiliated with the University of Michigan. At least one course at either the 300- or 400-level, taught in Italian, must be taken in RLL at the Ann Arbor campus.

Italian majors are encouraged to consider study abroad programs with an emphasis on Italian immersion. For information on receiving credit for study abroad in other programs, consult the department advisor.

Distribution Policy

No course used to fulfill a major requirement may be used toward the **LSA Distribution Requirement**. In addition, courses in the CATALAN, FRENCH, ITALIAN, PORTUG, ROMLANG, ROMLING, and SPANISH subject areas may not be used toward the Distribution Requirement.

Honors

Qualified students may be admitted to a program of advanced study during their junior year (or at the beginning of the senior year following foreign study), leading to the degree of Bachelor of Arts with Honors in Italian. Admission to senior-level Honors work in Italian is by application only (forms are available on the department website at www.lsa.umich.edu/rll). A grade point average of at least 3.4 in all courses, as well as a 3.5 in all Italian courses, is required for admission and for graduation with Honors in Italian. The Honors Committee expects applicants to demonstrate superior ability for their level in both oral and written Italian, and to present evidence of serious interest in research.

Italian Honors majors are required to complete 33 credits of coursework and successfully defend a thesis:

Course Requirements:

All regular Italian major requirements must be completed (30 credits) with 3 additional credits at the 300 level or above. 6 of the required 33 credits will consist of ITALIAN 491 and 492, Senior Honors Courses, normally taken in the fall and winter terms, respectively, of a student's senior year.

Thesis Requirement:

Composition of a thesis, in Italian, incorporating the results of individual research, demonstrating a substantial piece of work; and

A presentation and discussion of the thesis and of an agreed upon set of related readings with the student's faculty advisor and one other faculty reader.

Working under the direction of a faculty member who serves as thesis director, the student will research the thesis, complete a bibliography and prospectus, and begin drafting the writing process while enrolled in ITALIAN 491. In the following academic term the student will enroll in ITALIAN 492 and complete the thesis and its presentation and discussion.

Italian Minor

The objectives of the minor in Italian are to develop some facility in the use of Italian, to recognize major monuments of Italian literature, and to gain insight in to the history and present of Italian culture.

This minor offers students an opportunity to complement the knowledge gained in their principal field while focusing on linguistic competence and a grounding in one of the world's most historically influential, currently vibrant literatures and cultures.

Effective Winter 2021

Exclusions:

The minor in Italian is not open to students with an Italian major or any other minor in Romance Languages and Literatures.

Advising

The Department offers majors in French, Italian, Romance Languages & Literatures, and Spanish. It offers minors in French, Italian, Portuguese, and Spanish.

Appointments are scheduled **online** or at the department office, 4108 Modern Languages Building, (734) 764-5344.

Prerequisites

ITALIAN 230, 232, 233, or 410, or the equivalent

Requirements

Minimum Credits: 18

- 18 credits of courses in ITALIAN numbered ITALIAN 235 or higher, of which nine

credits must be conducted in the Italian language.

- The 18 credits must include at least one course each at the 200-level beyond ITALIAN 233, the 300-level, and the 400-level.
- Three credits may be accepted from courses in a cognate field, selected in consultation with and approved by the department's advisor.

Constraints

ITALIAN 410 (Italian for Spanish Speakers) does not count toward the Italian minor requirements.

Residency

At least 9 of the 18 credits for the Academic Minor must be taken in residence or in a study abroad program affiliated with the University of Michigan. At least one course at either the 300- or 400-level, taught in Italian, must be taken in RLL at the Ann Arbor campus.

Judaic Studies Major

A major in Judaic Studies enhances vital skills in research and writing, critical and creative thinking, cultural awareness, public speaking, and persuasive communicating. Judaic Studies majors pursue careers in Jewish communal services, social work, education, development, political advocacy, religious leadership, law, medicine, business, and other professional fields.

Effective Fall 2021

Exclusions:

Students can pursue both a Judaic Studies and a Middle East Studies major as long as the student does not elect to pursue both a Middle East Studies Hebrew submajor and a Judaic Studies Hebrew sub plan. Students pursuing a Middle East Studies Hebrew submajor or Judaic Studies Hebrew subplan cannot use the Hebrew credits used to fulfill the Hebrew submajor/subplan to also fulfill requirements for the Judaic Studies or Middle East Studies major.

Advising

A student who is interested in a major in Judaic Studies should meet with the major advisor as early as possible to plan a coherent course of study. Please email js-student-services@umich.edu or call 734-615-6097 to schedule an appointment.

Prerequisites

None

Requirements

Minimum Credits: 28

- **Core.** At least one of the following
 - JUDAIC 205: What is Judaism
 - JUDAIC 210 Sources of Jewish History
 - JUDAIC 281: Jews in the Modern World

- **Electives:** All courses must be at the 200-level or above with a Judaic listing or be approved by a major advisor.
- **Upper Level Credit Requirement** At least 15 credits must be at 300 or 400 level; at least one of these courses must be at the 400 level.

Hebrew Sub Plan: Optional sub plan for Judaic Studies majors

- Prerequisite of first year proficiency in Hebrew achieved through coursework (Hebrew 102) or placement examination.
- Judaic Studies Hebrew Sub Plan Language Requirement (6 credit minimum taken in residence): one 200 level course can count toward the language requirement (but does not count toward the 28 credit major). At least one Hebrew language course must be taken at the 300-level or above

Language:

- 200 level or above language courses in less commonly taught languages (such as Yiddish, Ladino, or Biblical Hebrew) can count toward the 28 credit major (up to 8 credits) if the student meets LSA's language requirement in another language.

Constraints

- Advanced Hebrew language courses (300-level and 400-level) may count toward the major.
- Students may not use more than one Independent study course as an elective unless approved by the Judaic Studies advisor.

Residency

Fifteen of the 28 credits must be elected in residence unless special permission is given by the major advisor.

Distribution Policy

No course used to fulfill a major requirement may be used toward the **LSA Distribution Requirement**. In addition, courses in the JUDAIC, LADINO, and YIDDISH subject areas may not be used toward the Distribution Requirement.

Honors

The Center offers an Honors plan to qualified Judaic Studies students. Application for an Honors plan is usually made at the beginning of the third year. Participation requires a 3.5 grade point average. Graduation with Honors is recommended for students who complete all College and Judaic Studies graduation requirements, maintain a 3.5 GPA, and write a substantial Honors thesis which is judged worthy of Honors designation by the thesis advisor and at least one other faculty reader. An Honors plan is not limited to students who have been in the College Honors Program in the first and second years. For more information about Honors, email Ask.Honors@umich.edu or call 734.764.6274.

Judaic Studies Minor

The minor in Judaic Studies provides a basic familiarity with Judaic Studies. It introduces students to Jewish cultures and societies. Judaic Studies courses explore the diverse

experiences of the Jewish people, their traditions, their histories, their interactions with other cultures, and their impact on world civilizations. The fifteen credits required for a minor in Judaic Studies are tailored to complement and enrich the programs of students who come from a widespread range of disciplines. A degree in Judaic Studies enhances vital skills in research and writing, critical and creative thinking, cultural awareness, public speaking, and persuasive communicating. Judaic Studies minors pursue careers in Jewish communal services, social work, education, development, political advocacy, religious leadership, law, medicine, business, and other professional fields.

Effective Fall 2021

Exclusions:

A minor in Judaic Studies is not open to students with a major in Judaic Studies or a minor in Yiddish Studies.

Advising

A student who is interested in a minor in Judaic Studies should meet with the minor advisor as early as possible to plan a coherent course of study. Please email js-student-services@umich.edu or call 734-615-6097 to schedule an appointment.

Prerequisites

None.

Requirements

Minimum Credits: 15

- **Core Courses:** At least one of the following three core courses:
 - JUDAIC 205: What is Judaism?
 - JUDAIC 210: Sources of Jewish History
 - JUDAIC 281: Jews in the Modern World
- **Electives:** All courses must be at the 200-level or above with a Judaic listing or be approved by a minor advisor.
- **Upper Level Credit Requirement:** At least two courses must be taken at the 300 or 400 level (6 credits).

Language:

- 200 level or above language courses in less commonly taught languages (such as Yiddish, Ladino, or Biblical Hebrew) can count toward the 15 credit minor (up to 8 credits) if the student meets LSA's language requirement in another language.

Constraints

- Advanced Hebrew language courses (300-level and 400-level) may count toward the minor.
- Students may not use more than one Independent study course as an elective.

Residency

At least three of the courses counting toward the minor must be taken at the UM-Ann Arbor campus.

Latin American and Caribbean Studies Major

The Interdepartmental Program of study in a major in Latin American and Caribbean Studies is designed to provide students with a rigorous, multi-disciplinary approach to the study of Latin America and the Caribbean. A broad base of knowledge is established by the requirement of a core of upper-level work in languages, the social sciences, and the humanities. Analytical depth is demonstrated through the completion of a senior thesis under appropriate faculty supervision.

Effective Fall 2016

Advising

Undergraduate advisors at the International Institute are available to meet with undeclared students who would like to learn more about the program, and also with current majors and minors who would like to discuss course selection, degree requirements, major/minor releases, and other matters of concern. Appointments can be made through our online appointment calendar **here**. Information on all of our undergraduate programs and Walk-In Advising hours can also be found on our website. The International Institute's Undergraduate Advising Office is currently located at 1080 South University Avenue, Suite 2660.

Prerequisites

None.

Requirements

Minimum Credits: 30

LACS Language Requirement for the Major. Proficiency in Spanish [SPANISH 277 or RCLANG 294 or equivalent] or Portuguese [PORTUG 232 or equivalent] should be achieved as early as possible in the program. Students are encouraged to go beyond this, either with further work in the language chosen, or by achieving competency in the other major language. Language requirement courses are not included in the minimum 30 credits required for the major nor in the major GPA.

At least 20 credits must be at the 300-400 level.

Required Courses. Students must include at least one course from each of the following areas of study:

- *Anthropology:*
ANTHRCUL 319: Latin American Society and Culture, ANTHRCUL 414: Introduction to Caribbean Societies and Cultures, I, or an upper-level Anthropology course on Latin America, approved by an advisor.
- *History:*
HISTORY 347: Latin America: The Colonial Period or HISTORY 348: Latin America: The National Period, or an upper-level HISTORY course on Latin America, approved by an advisor.
- *Literature:*
SPANISH 381: Survey of Latin American Literature, I, SPANISH 382: Survey of Latin

American Literature, II, or an upper-level course in Latin American literature, approved by an advisor.

- *Politics and Economy:*

SPANISH 438: Economy and Politics in Latin America/Spain, or an upper-level course in Latin American politics and/or economy, approved by an advisor.

Note: courses in this area are usually found in the departments of Political Science, Sociology, and Spanish.

Elective Courses. The remainder of the 30 credits may be drawn from courses, from any department, that deal with Latin America and the Caribbean; including up to 4 credits of Quechua or Nahuatl language. Study Abroad coursework may be used toward the major with approval from an advisor.

Distribution Policy

No course used to fulfill a major requirement may be used toward the **LSA Distribution Requirement**. In addition, courses in the LACS subject area may not be used toward the Distribution Requirement.

Honors

Application for an Honors major is usually made at the beginning of the third year. Participation requires a 3.5 GPA in all LACS coursework and a 3.4 overall GPA. Graduation with Honors is recommended for students who complete all College and LACS graduation requirements, maintain a 3.5 major GPA, 3.4 overall GPA, and write a substantial LACS Senior Thesis that is judged worthy of Honors designation by the thesis advisor and at least one other faculty reader. An Honors major is not limited to students who have been in the College Honors Program in the first and second years. LACS Honors candidates will enroll in LACS 399 during their thesis writing semester. More details about the Senior Thesis and about applying for LACS Honors may be obtained from the department advisor.

Latin American and Caribbean Studies Minor

The LACS minor is designed to provide students with a multidisciplinary approach to the study of Latin America and the Caribbean. It aims to enhance the student's disciplinary training, received through major in a traditional discipline, by exposing the student to the topics and issues that are raised in the multidisciplinary area studies approach to countries of the Americas.

Effective Fall 2016

Exclusions:

A minor in Latin American and Caribbean Studies is not open to students with a major in Latin American and Caribbean Studies.

Advising

Undergraduate advisors at the International Institute are available to meet with undeclared students who would like to learn more about the program, and also with current majors and minors who

would like to discuss course selection, degree requirements, major/minor releases, and other matters of concern. Appointments can be made through our online appointment calendar [here](#). Information on all of our undergraduate programs and Walk-In Advising hours can also be found on our website. The International Institute's Undergraduate Advising Office is currently located at 1080 South University Avenue, Suite 2660.

Students wishing to pursue a minor in Latin American and Caribbean Studies must develop a specific plan for its completion in consultation with an advisor; including the declaration of one of three tracks: Health, Medicine and Science, Human Rights, or Latin American and Caribbean Societies.

Prerequisites

SPANISH 232 or RCLANG 294, or PORTUG 232, or equivalent.

Requirements

Minimum Credits: 15

At least 15 credit of advisor approved courses at the 300-level and above, to be chosen from one of the following tracks:

1. Health, Medicine, and Science

- Two courses (6 credits) directly related to the fields of Health, Medicine and Science that touch on issues in the Latin American and Caribbean region.
- Three courses (or at least 9 credits) drawn from courses, from any department, that cover Latin America and the Caribbean.

2. Human Rights

- Two courses (6 credits) directly related to the field of Human Rights that touch on issues in the Latin American and Caribbean region.
- Three courses (or at least 9 credits) drawn from courses, from any department, that cover Latin America and the Caribbean.

3. Latin American and Caribbean Societies

- Two courses (6 credits) that touch on cultural and societal issues in the Latin American and Caribbean region.
- Three courses (or at least 9 credits) drawn from courses, from that cover Latin America and the Caribbean.

Interdisciplinary Requirement. Courses must be drawn from at least three different departments, with not more than six credits in any one department.

Residency

Study Abroad coursework may be used toward the minor with approval from an advisor.
coursework may be used toward the minor with approval from an advisor.

Latin Language and Literature Major

A major in Classical Studies equips its students with the knowledge, skills, intellectual agility, and different points of view to pursue a variety of careers, whether the student's next step is entry into the workforce or further education in professional or graduate school. Faculty advisors work with students to develop a program of study within their major and to articulate

the connections between their education and career goals and aspirations.

Learning Goals for All Majors

Every major in Classical Studies asks students to:

- explore the many facets of the ancient world—its history, societal and cultural practices, and intellectual endeavors (e.g., law, religion, political theory and practice, art and material objects, language and literature, philosophy, science)
- recognize and interpret the complexities of the ancient world, including such problematic aspects as slavery, gender inequality, and various types of bias
- understand different critical perspectives
- ask questions and engage in critical thinking, especially analysis and synthesis of information, ideas, and situations to solve complex problems
- work with a variety of primary sources, both textual (in the original language or translation) and material (aided by the resources of the Kelsey Museum and the papyrology collection)
- make inferences from the fragmentary and incomplete record of the past
- communicate complex ideas and persuasive arguments in writing and oral presentations
- conduct research using primary and secondary sources, including both traditional and digital media

The Classical Studies Department encourages its students to participate in the wide array of events and activities in which faculty and graduate students are involved, including UROP projects, student clubs, lectures, brown bag presentations, and reading groups. Students are also encouraged to study abroad.

Because many Classical Studies courses are small, majors have opportunities to work closely with their professors and professors get to know their students well.

Greek, Latin, or Classical Languages and Literatures (Greek and Latin)

In addition to the learning goals mentioned above, each of the three language tracks asks students to:

- attain a sophisticated understanding of the ancient language(s) and a deepened understanding of how language constructs meaning
- attain a deep familiarity with foundational literary works and genres through close reading and critical analysis of the content and structure of texts in the original language(s)
- understand the ancient language(s) as the source for the terminology of medicine, law, and the sciences
- understand the wide-ranging influence of classical literature from antiquity to the modern era on cultural and creative enterprise
- draw on the rhetorical and narrative strategies of classical literature to strengthen and refine skills in writing clearly and persuasively

Our department provides free "drop-in" tutoring available to all students in the Elementary Latin and Greek courses.

Effective Winter 2023

Advising

Students interested in the Department's major programs in Greek, Latin, Classical Languages and Literatures, Classical Archaeology, Classical Civilization, or Modern Greek should check

with the Department office for the name of the current advisor. Students interested in obtaining a Teacher Certification in Latin should see the Elementary Latin Coordinator.

The Department recommends that interested students see the department advisors as early as possible in order to plan their programs and avoid unnecessary scheduling conflicts.

Grade Policies

The department requires that a student earn a grade of at least C– in all *language* courses which are prerequisite for subsequent elections. A student should repeat any *language* course in which a D+ or lower grade is earned and which serves as a prerequisite to other courses which are to be elected. A grade of D+ signifies some achievement but denotes too weak a foundation for subsequent courses.

Prerequisites

One of the following: LATIN 231 (Honors section) or 232 or 233, or LATIN 294; or special placement examination.

Requirements

Minimum Credits: 24

Requires a minimum of 8 courses (of at least 3 credits each) including:

1. one introductory course selected from CLARCH 222, CLCIV 202 or 302, or HISTORY 201
2. six courses in LATIN at the 300-level or above; at least one of the courses must be above LATIN 410
3. at least one upper-level (300- or 400-level) course in Roman civilization, archaeology, or history (minimum of 3 credits; course must be above CLCIV 302)

Constraints

Three credits of Independent Study (LATIN 499) may be used with written approval of the undergraduate advisor.

Distribution Policy

No course used to fulfill a major requirement may be used toward the **LSA Distribution Requirement**. In addition, courses in the CLARCH, CLCIV, CLLING, GREEK, GREEKMOD, and LATIN subject areas may not be used toward the Distribution Requirement.

Honors

The department offers Honors in each of the six majors. Interested students who have a cumulative grade point average of at least 3.4 should contact their department advisor to discuss an Honors thesis no later than the winter term of their junior year.

It is the student's responsibility to find a suitable faculty advisor to oversee the thesis project. This project and its components are to be decided collectively by the student and the advisor at the end of the junior year. We encourage students to think creatively about the approach to their research and thesis project. Thesis advisors must sign off on a student's thesis project proposal.

At the end of the thesis project, the candidate must offer an oral defense of this work to a committee comprised of the thesis advisor and another faculty member, and present their

research findings at the Classical Studies Honors Symposium.

Honors in Latin Language and Literature

In addition to the above requirements, students pursuing an Honors major must satisfy the following:

- 3.4 minimum cumulative GPA; 3.5 minimum major GPA
- Completion of an Honors thesis and oral defense in coordination with a Classics faculty member
- Completion of one additional Latin course at the 420-level or above (CLCIV 480 & LATIN 495 do not satisfy this requirement)
- CLCIV 480: Studying Antiquity, *section titled "Research Seminar"* (Fall term)

Students may also elect LATIN 495 for 1-2 credits in the Fall and 1-3 credits in the Winter but are not required to do so.

Teaching Certificate

Students interested in a secondary school teaching certificate with a teaching major or minor in Latin must have the Elementary Latin Coordinator approve their program of study.

Teaching Major in Latin.

Thirty credits which must include:

1. Fifteen credits in LATIN beyond 232, of which 12 must be at the 400-level or above; neither LATIN 499 nor 599 may be counted toward the teaching major without permission of the teaching certificate advisor;
2. One course in Latin composition;
3. One course in Classical Archaeology;
4. One course in Roman history;
5. One course in Linguistics.

Teaching Minor in Latin.

Twenty credits which must include:

1. Twelve credits in LATIN beyond LATIN 232, of which 9 must be at the 400-level or above. Neither LATIN 499 nor 599 may be counted toward the teaching minor without permission of the teaching certificate advisor;
2. One course in Roman history;
3. One course in Linguistics.

The Elementary Latin Coordinator has the authority to modify departmental requirements for a teaching major or minor in special cases and in keeping with the general requirements for the teaching certificate.

Latin Language and Literature (Major) (Winter 2021 - Fall 2022)

Effective Winter 2021

Advising

Students interested in the Department's major programs in Greek, Latin, Classical Languages and Literatures, Classical Archaeology, Classical Civilization, or Modern Greek should check with the Department office for the name of the current advisor. Students interested in obtaining

a Teacher Certification in Latin should see Dr. Shonda Tohm.

The Department recommends that interested students see the department advisors as early as possible in order to plan their programs and avoid unnecessary scheduling conflicts.

Grade Policies

The department requires that a student earn a grade of at least C– in all *language* courses which are prerequisite for subsequent elections. A student should repeat any *language* course in which a D+ or lower grade is earned and which serves as a prerequisite to other courses which are to be elected. A grade of D+ signifies some achievement but denotes too weak a foundation for subsequent courses.

Prerequisites

One of: LATIN 231 (Honors section) or 232 or 233, or LATIN 194; or special placement examination.

Requirements

Minimum Credits: 27

Requires a minimum of 9 courses (of at least 3 credits each) including:

1. Seven courses in LATIN at the 300-level or above; of which at least four must be at the 400-level or above. At least two of the courses at the 400-level must be higher than the entry level advanced courses (i.e., LATIN 401, 402, 409, and 410).
2. one introductory course selected from CLARCH 222, CLCIV 202 and 302, or HISTORY 201.
3. At least one upper-level (300- or 400-level) course in Roman civilization, archaeology, or history. Minimum of 3 credits. (300-level must be above 303)

Constraints

Three credits of Independent Study (LATIN 499) may be used with written approval of the undergraduate advisor.

Distribution Policy

No course used to fulfill a major requirement may be used toward the **LSA Distribution Requirement**. In addition, courses in the CLARCH, CLCIV, CLLING, GREEK, GREEKMOD, and LATIN subject areas may not be used toward the Distribution Requirement.

Honors

Effective Date of Honors requirements for the major Fall 2016

The department offers Honors in each of the six majors. Interested students who have a cumulative grade point average of at least 3.5 should contact their department advisor to discuss an Honors thesis no later than the winter term of their junior year at the latest.

It is the student's responsibility to find a suitable faculty advisor to oversee the thesis project. This project and its components are to be decided collectively by the student and the advisor at the end of the junior year. We encourage students to think creatively about the approach to their research and thesis project. Thesis advisors must sign off on a student's thesis project proposal. Honors students may receive six credits during their senior year for research culminating in a thesis project by registering for one of the following courses: CLARCH 495, CLCIV 495,

GREEK 495 or LATIN 495 depending on the major. At the end of the thesis project, the candidate must offer an oral defense of this work to a committee comprised of the thesis advisor and another faculty member, and present their research findings at the Classical Studies Honors Symposium.

In addition to the above requirements, students pursuing an Honors major must satisfy the following:

- 3.4 minimum overall GPA; 3.5 minimum major GPA
- Completion of an Honors thesis and oral defense in coordination with a Classics faculty member
- Completion of one additional Latin course at the 420-level or above (CLCIV 480 & LATIN 495 do not satisfy this requirement)
- CLCIV 480: Studying Antiquity, *section titled "Research Seminar"* (Fall term)

Students may also elect LATIN 495 for 1-2 credits in the Fall and 1-3 credits in the Winter but are not required to do so.

Teaching Certificate

Effective Fall 2012

Students interested in a secondary school teaching certificate with a teaching major or minor in Latin must have Dr. Shonda Tohm approve their program of study.

Teaching Major in Latin.

Thirty credits which must include:

1. Fifteen credits in LATIN beyond 232, of which 12 must be at the 400-level or above; neither LATIN 499 nor 599 may be counted toward the teaching major without permission of the teaching certificate advisor;
2. One course in Latin composition;
3. One course in Classical Archaeology;
4. One course in Roman history;
5. One course in Linguistics.

Teaching Minor in Latin.

Twenty credits which must include:

1. Twelve credits in LATIN beyond LATIN 232, of which 9 must be at the 400-level or above. Neither LATIN 499 nor 599 may be counted toward the teaching minor without permission of the teaching certificate advisor;
2. One course in Roman history;
3. One course in Linguistics.

Dr. Shonda Tohm has the authority to modify departmental requirements for a teaching major or minor in special cases and in keeping with the general requirements for the teaching certificate.

Latin Language and Literature Minor

This minor is designed to provide a basic, but contextual and broad, familiarity with Latin language and literature and the civilization of ancient Rome. More specifically, it requires students to study, at the intermediate and advanced level, Latin and authors writing poetry and/or

prose, but at the same time, it acquaints the student with the broader historical, social, and cultural content in which these authors lived and worked.

Effective Winter 2021

Exclusions:

The Latin Language and Literature minor is not open to students with a major in Classical Languages or any other minor in the Department of Classical Studies.

Advising

The Department recommends that interested students see the department advisors as early as possible in order to plan their programs and avoid unnecessary scheduling conflicts.

Students wishing to pursue a minor in Classical Studies must develop a specific plan for its completion in consultation with the Department's designated advisor. Appointments may be scheduled at 2160 Angell Hall.

Grade Policies

The department requires that a student earn a grade of at least C– in all *language* courses which are prerequisite for subsequent elections. A student should repeat any *language* course in which a D+ or lower grade is earned and which serves as a prerequisite to other courses which are to be elected. A grade of D+ signifies some achievement but denotes too weak a foundation for subsequent courses.

Prerequisites

LATIN 231 (Honors section), LATIN 232, LATIN 233, LATIN 194, or equivalent as determined by departmental placement examination.

Requirements

Minimum Credits: 16

1. **Latin Language and Literature courses:** at least two upper-level courses.
2. **Roman Civilization courses:** at least one broad introductory course (CLCIV 202 or 302, CLARCH222, or HISTORY 201).
3. **Upper-Level courses:** at least one upper-level (300- or 400-level) course in Roman civilization, archaeology, or history.
4. Another course from numbers 1, 2, or 3 above

Latina & Latino Studies Major

A component of the Department in American Culture, Latina/o Studies is designed to give students an opportunity to develop cultural competence on the diverse groups that comprise the U.S. Latina/o populations, that is, Mexican-Americans or Chicano/as, Puerto Ricans, Cuban-Americans, Central Americans, and other peoples of Spanish, Indigenous, and African descent. Currently the largest minority group in this country, Latinas/os have not only made contributions to U.S. society with their work, values, cultural traditions and linguistic heritage, they have also participated in the making of this country's history. The Latina/o Studies

Program offers a variety of courses, some focusing on particular national groups, others based on a particular discipline, and many others organized around specific comparative topics or issues. Examples of courses in Latina/o Studies include: "History of U.S. Latinos," "Latinas in the United States," "American Immigration," "The Politics of Language and Cultural Identity," "Schooling and Community," "Latino Performance Arts," "Latinos in the Media", "Empowering Latino Families and Communities," "Migrant Bodies," "Hybrid Texts," "Puerto Rican Literatures: The Island and the Mainland," "Cuba and Its Diaspora," and others.

Effective Winter 2019

Advising

Students can set up advising appointments for any of the program's major or minor plans by visiting <https://lsa.umich.edu/ac/undergraduates/advising.html>.

Prerequisites

None.

Requirements

Minimum Credits: 30

An interdisciplinary degree, the Latina/o Studies major consists of 30 credits. The objective of this major program is to engage students in a diversity of disciplinary approaches to the study of U.S. Latinas/os as well as to introduce them to the central intellectual questions and topics that have emerged in this field of inquiry. Given the interdisciplinary nature of Latino Studies, students interested in pursuing graduate study in a particular discipline should double concentrate in the respective department in order to have the needed background to enter graduate school. The major consists of:

1. **Latino Studies Major Second Language Proficiency Requirement:** Given the importance of second language proficiency to the study of Latina/o populations in the United States, the Latina/o Studies Program requires all majors to satisfy their 4th term proficiency in Spanish, or another relevant language approved by the program advisor.
2. **AMCULT 213:** Introduction to Latina/o Studies
3. Students will be required to take **six** additional Latina/o Studies courses. **Two** of the six courses must be at the 300 level or above.
4. **AMCULT 498:** Capstone. Students will take AMCULT 498 (or an equivalent approved by the LS advisor). They will use this course to complete a major independent project on a topic relevant to Latina/o Studies.
5. **Tracks.** When declaring the major, students will identify one of five primary tracks (comparative ethnic studies, gender and sexuality, migration and transnationalism, community engagement and social action, and arts and media). The LS director will consult with students, helping them to select courses to complete the track (and to confirm the completion at the time of the senior release). The expectation will be that at least 4 courses, but no more than 6, will combine to provide coherence for the selected track. Students may propose alternative tracks with the approval of the LS Director.

Distribution Policy

No course used to fulfill a major requirement may be used toward the **LSA Distribution Requirement**. In addition, courses in the AMAS, AMCULT, ARABAM, ASIANPAM,

LATINOAM, and NATIVEAM subject areas may not be used toward the Distribution Requirement.

Honors

The American Culture Honors Program provides an opportunity for majors in American Culture and Latina/o Studies to complete a comprehensive, original independent project under the guidance of a faculty member as the culmination of their undergraduate studies. We recommend that students choose topics on which they have already done some academic study. The Honors thesis may take a variety of forms, for example, a research project, a critical or interpretive project, or a creative or performance piece. Creative and community-based projects should include a substantive introductory essay that sets forth the premises, aims, and cultural/intellectual contexts of the student's undertaking. Honors requirements consist of regular American Culture or Latina/o Studies requirements plus the Honors requirements.

American Culture and Latina/o Studies majors with an overall grade-point average of 3.5 or higher may apply for an Honors major. The Program spans three terms. Students usually apply in the fall term of their junior year. Though the program occasionally accepts a few late applicants in the Winter or Spring/Summer terms, students' chances of success are greatest if they apply in the fall of the Junior Year and if they have begun thinking about a possible focus.

The application process has three stages:

1. In the first semester of his or her junior year, the student must consult with the American Culture department advisor to gain permission to enroll in AMCULT 398, the Junior Honors Writing Workshop (three credits).
2. In the second semester of the junior year, the student must successfully complete AMCULT 398, which involves preparing a thesis prospectus and bibliography and identifying a supervising faculty advisor and a second reader.
3. At the end of the second semester of the junior year, the student will submit the prospectus and a letter of agreement from the faculty advisor. The student will then meet with the director of the Program in American Culture to discuss the prospectus and be accepted into the Honors major.

The application consists of a cover sheet, transcript, and prospectus.

In both semesters of the senior year, the student will enroll in AMCULT 493 (3 credits per semester) to research and write the thesis.

In addition, effective in Fall 2010, as part of AMCULT 493, students in the Honors program will participate in three Friday colloquia. The colloquia are also open to Latina/o Studies majors pursuing Honors. The colloquia will focus on peer response to work in progress, as well as on topics of particular usefulness to a given cohort of students. The series will be facilitated by the Director of Undergraduate Studies and is intended to provide seniors with ongoing mentoring.

Early selection of an appropriate thesis advisor is crucial to the success of the Honors thesis.

Only tenure track faculty members in the Program in American Culture and the Ethnic Studies Programs may serve as Honors thesis advisors. Exceptions to this policy may be made in consultation with the Director of Undergraduate Studies. Faculty are listed on the Program's web site.

The second reader is a faculty member chosen jointly by the student and the thesis advisor by the end of the fall semester of the senior year. The second reader need not be affiliated with the Program, but her or his area of expertise should be relevant to the thesis topic. The student should consult with the second reader throughout the writing process, and the second reader should comment on thesis drafts as well as contribute to the final evaluation of the thesis.

Submission of Thesis

Students should submit one copy to their primary faculty advisor, one copy to the second reader, and one copy to the Undergraduate Program Assistant in the Program Office. The copy submitted to the office should include a cover sheet (providing the student's name, email, and telephone number; thesis title; and the names of the primary advisor and second reader). The primary advisor and the second reader determine the designation of Honors (Honors, High Honors, Highest Honors).

Graduating seniors should also complete an Honors Plan Release with the AC academic advisor, an application for graduation online, and a distribution worksheet with an Honors advisor.

Latina & Latino Studies Minor

American Studies Minors

American Culture offers a general minor in addition to minors from our Latina/o Studies, **Native American Studies**, **Arab and Muslim American Studies**, and **Asian/Pacific Islander American Studies** units. The American Culture minor gives skills, information, and techniques from a wide variety of perspectives and disciplines. Students engage comparative ethnic studies, history, literature, film/media studies, religion, music, art, digital technologies, women's studies, folklore, sexuality studies, and ethnography. Our curriculum allows students a better understanding of the nation's diversity and the U.S.'s role in a global context. We explore what it has meant — and continues to mean — to claim to be an "American." The department also offers a minor in **Digital Studies**.

Latina/o Studies Minor

The minor in Latina/o Studies is intended for students who wish to develop a coherent understanding of the contributions of the Latina/o presence in American culture, history, and society. The minor supplements majors in traditional humanities and social science disciplines by providing content knowledge of Latina/o communities. The minor will also benefit students pursuing degrees in the professional world in areas such as public health, social work, business, and pre-law thus better preparing them for work in their chosen field.

Effective Fall 2018

Exclusions:

A minor in Latina/o American Studies is not open to students with a Latina/o Studies major or any minor in the Department of American Culture.

Advising

Students can set up advising appointments for any of the program's major or minor plans by visiting www.lsa.umich.edu/ac/undergraduate/advising.

Prerequisites

None.

Requirements

Minimum Credits: 15

Latina/o Studies Core: LATINOAM 213 / AMCULT 213 Introduction to Latina/o Studies. (must be taken for a letter grade).

Students will select 4 courses (12 credit hours) from regularly taught Latina/o Studies Courses:

- LATINOAM / AMCULT 103: First Year Seminar in Latina/o Studies
- LATINOAM / AMCULT 204: Themes in Latina/o Studies
- RCLANG 204: Spanish Language Internship Project (*only until FA20*)
- SOC 225 Project Community*
- LATINOAM / AMCULT 226: The Latin Tinge
- LATINOAM / AMCULT / WGS 243 (WOMENSTD 243): Latinas in the U.S.
- LATINOAM / AMCULT 301: Topics in Latina/o Studies
- RCCORE 301: Community-Based Internship - Semester in Detroit*
- LATINOAM / AMCULT 304: American Immigration
- RCLANG 304: PALMA: Spanish in the Community
- LATINOAM / AMCULT 310: Latina/o Studies and the Social Sciences
- LATINOAM / AMCULT 311: Latina/o Studies in the Humanities
- LATINOAM / AMCULT 313: Cuba and its Diaspora
- LATINOAM / AMCULT 315/HISTORY 377: History of Latinos in the U.S.
- AMCULT 321 / PSYCH 325: Practicum in the Multicultural Community*
- LATINOAM / AMCULT 327/ENGLISH 387: Latina/o Literature of the U.S.
- RCSSCI 360: Social Science Junior Seminar, *section titled, "Spanish Language Internship Program II" (FA20 or later)*
- LATINOAM / AMCULT 361: Principles and Practices of Teaching ESL in Migrant Communities
- LATINOAM / AMCULT 380: Studies in Transnational Media
- LATINOAM / AMCULT / FTVM 381: Latina/os and the Media
- LATINOAM/ AMCULT 385: Immigration Law: Critical Approaches to Contemporary Issues
- AMCULT 388 or 425: Field Study*
- LATINOAM / AMCULT 389: Reading Course in Latina/o Studies
- EDUC 390 / RCSSCI 390: Community-Engaged Learning in ESL Teaching Contexts*
- LATINOAM 404: Latina/os in the US: Social Problems and Social Issues
- LATINOAM / AMCULT 405: Topics in Latina/o Studies
- LATINOAM / AMCULT 420: Latin American and Latina/o Film Studies
- LATINOAM / SPANISH 440: Literature & Culture of the Borderlands
- SPANISH 428: Internship in Spanish
- POLSCI 489: Politics of Latinidad

*Exceptions & substitutions may be approved in consultation with an advisor.

Law, Justice, and Social Change Minor

Sociology has long served students interested in sociology; some of these students have deep interests in law, justice, and social change and advocacy. This minor offers those students a coherent curriculum that emphasizes the ways in which legal and other social institutions reproduce and exacerbate social inequalities, and the capacity of social groups to challenge such institutions in ways that produce fundamental social change. Students may select from a wide range of courses in which they will explore knowledge in criminology, law, social movements, and human rights.

This minor is intended for those students who have interests in law and/or social change, and for non-majors who are eager for the perspective that sociology brings to their understanding of law and justice. It offers students:

- An understanding of theoretical perspectives on justice and on the connections between law and society.
- Frameworks for thinking about legal compliance, deviance, and resistance.
- Perspectives for thinking about the relationship between “law on the books” and “law in actions”.
- Tools for thinking about the relationship between law and social change.
- What it means to “use” law in contexts outside the courtroom – including in families, neighborhoods, workplaces, social movements, mass media, prisons, and health care settings.
- Understandings of the law in international contexts and in regard to human rights issues.
- The foundation of theory, methods, and substantive knowledge necessary to develop informed perspectives on criminality, crime policy, and the social consequences of legal punishment.

Effective Winter 2023

Exclusions:

A minor in Law, Justice, and Social Change is not open to those electing a minor in Crime and Justice (Residential College). Students electing the Law, Justice, and Social Change minor may not declare a minor in History of Law and Policy.

Advising

Please review the **Advising** page of the Sociology website for full information on declaring a Sociology major, sub-major, or minor, getting in touch by email, or scheduling an appointment.

A department advisor is available to discuss the choice of Sociology as a major or minor, assist with course planning, and provide guidance on department opportunities. Students may schedule an advising appointment using the online appointment scheduler linked **here** or email advising questions to **socadvisor@umich.edu**.

Grade Policies

Students must earn at least a C– in the prerequisites for the minor and in all courses they plan to include in the minor. Courses elected as pass/fail may not be included in the minor.

Prerequisites

One of SOC 100, 102, 300, or 302.

Requirements**Minimum Credits: 15**

A minimum of 15 credits from any combination of the courses listed below.

SOC 204: International Migration and the Politics of Membership in a Globalizing World

SOC 208: Terrorism, Torture, & Violence

SOC 214: Non-profits

SOC 225: Project Community - Criminal Justice Section

SOC 250: Politics, Power, and Society

SOC 270: Gender and the Law

SOC 304: American Immigration

SOC 325: Project Community: Advanced Practicum - Criminal Justice Section

SOC 335: Urban Inequality in America

SOC 354: Law and Society

SOC 368: Criminology

SOC 391: Justice in Action

SOC 422: Latin America

SOC 461: Social Movements: Political Protest and Collective Resistance

SOC 465: Sociology of Deviance: From Sin to Sickness

SOC 468: Crime & Justice: Inside Out Prison Exchange

SOC 476: Sociology of Bioethics

SOC 480: Environmental Justice

Approved topics in SOC 295, 495, 394 (SURO), 395 (Independent Study), 396 (Internship)

A minimum of nine credits must be elected in the minor at the 300-level or above (not including prerequisites).

Constraints

Up to 6 credits of SOC 394 SURO, SOC 395 Independent Study, and SOC 396 Internship may count in the minor.

Other Department Policies

Sociology will allow one course from outside the department with significant sociological content related to law, justice, and social change to be included in the plan for the minor.

Students interested in petitioning to include a non-SOC course in their minor should complete the course petition process which includes submitting a petition form and the course syllabus.

Law, Justice, and Social Change (Minor) (Winter 2017 - Fall 2022)

Effective Winter 2017

Exclusions:

A minor in Law, Justice, and Social Change is not open to those electing a minor in Crime and Justice (Residential College). Students electing the Law, Justice, and Social Change minor may not declare a minor in History of Law and Policy.

Advising

Please review the **Advising** page of the Sociology website for full information on declaring a Sociology major, sub-major, or minor, getting in touch by email, or scheduling an appointment.

A department advisor is available to discuss the choice of Sociology as a major or minor, assist with course planning, and provide guidance on department opportunities. Students may schedule an advising appointment using the online appointment scheduler linked **here** or email advising questions to **socadvisor@umich.edu**.

Grade Policies

Students must earn at least a C– in the prerequisites for the minor and in all courses they plan to include in the minor. Courses elected as pass/fail may not be included in the minor.

Prerequisites

One of SOC 100, 102, 195, 300, or 302.

Requirements

Minimum Credits: 15

A minimum of nine credits must be elected in the minor at the 300-level or above (not including prerequisites).

A minimum of 15 credits from any combination of the courses listed below.

- SOC 204: International Migration and the Politics of Membership in a Globalizing World
- SOC 214
- SOC 250: Politics, Power, and Society
- SOC 208: Terrorism, Torture, & Violence
- SOC / WGS 270 (WOMENSTD 270): Gender and the Law
- SOC 295: Topics in Sociology, *section titled "Non-Profits" (F18)*
- SOC 304: American Immigration
- SOC 335 / AAS 347 / RCSSCI 343: Urban Inequality in America
- SOC 350: Human Rights in the United Nations
- SOC 368: Criminology
- SOC 354: Law and Society
- SOC 422: Latin America (F19)
- SOC 450: Human Rights in a Globalizing World: How Human Rights Evolved and Changed the World
- SOC 461: Social Movements
- SOC 465 / PSYCH 488 / WGS 465 (WOMENSTD 465): Sociological Analysis of Deviance
- SOC 468: Crime & Justice: Inside-Out Prison Exchange
- SOC 476: Sociology of Bioethics
- SOC 488: Organizing Internship
- SOC 489: Community Organizing and Social Change
- SOC 495: Topics in Sociology, *section titled "Env Justice: Capitalism, Resistance, & Just Sustainab" (SU18)*
- SOC 225 (or 389)*: Practicum in Sociology (Project Community at a criminal justice site)

Students may also include the following courses with appropriate topics as approved by the department advisor:

- SOC 295: Topics in Sociology

- SOC 394: Undergraduate Research
- SOC 395: Independent Study
- SOC 396: Undergraduate Internship
- SOC 495: Topics in Sociology

Constraints

A maximum of 6 credits in the minor may come from experiential learning or independent study style courses. These include (but are not limited to) SOC 225, 394, 395, 396, and 488.

Other Department Policies

The department of Sociology will allow one course with significant sociological content related to Law, Justice, and Social Change from other LSA departments or from transfer institutions to be included in the plan for the minor.

Students interested in petitioning to include a non-SOC or transfer course in their minor should complete the course petition process which includes submitting a petition form and the course syllabus.

Lesbian Gay Bisexual Transgender Queer (LGBTQ) and Sexuality Studies Minor

This minor is designed to introduce students to the field of lesbian, gay, bisexual, transgender, queer, and sexuality studies. Required and elective courses provide students with the opportunity to explore how various practices, institutions and beliefs intersect with sexualities and sexed bodies, in a range of cultures, geographies, and histories. Students will have the opportunity to rely upon courses, representing an interdisciplinary array of scholarship, in pursuing the study of sexuality and sexual identities.

Effective Winter 2021

Advising

Students wishing to pursue a minor in Women's and Gender Studies must develop a specific plan for its completion in consultation with the department's designated advisor.

Advising appointments are made online. To make an advising appointment, please see the bottom left-hand corner of the Women's and Gender Studies website main page: www.lsa.umich.edu/wgs.

Prerequisites

None.

Requirements

Minimum Credits: 15

Five courses totaling at least 15 credits, to be chosen from the following categories as stated:

1. **Foundational Course:** WGS 245 (WOMENSTD 245) Introduction to Lesbian, Gay, Bisexual and Transgender+ Studies, WGS 265 Introduction to Transgender

Studies, or WGS 295 (WOMENSTD 295) Sexuality in Western Culture.

2. **Electives:** Four electives (12 credits) that focus on LGBT issues. At least two courses must be at the 300 level or above, with at least one at the 400 level.
- WGS / ENGLISH 214: Intro to LGBTQ+ Literature
 - WGS (WOMENSTD) 224 / JUDAIC 224 / HISTORY 222: Sex and Sexuality in Jewish History and Culture (WN19)
 - WGS (WOMENSTD) / AMCULT 239: Gender, Sexuality, and Health in America
 - WGS 245 (WOMENSTD 245): Introduction to Lesbian, Gay, Bisexual and Transgender and Queer Studies (*when not taken as the foundational course*)
 - WGS 258 (WOMENSTD 258): Special Topics in Interdisciplinary Women's and Gender Studies, *section titled "Introduction to Transgender Studies" (only if elected WN20 or later)*
 - WGS 265 Introduction to Transgender Studies (*when not taken as the foundational course*)
 - WGS (WOMENSTD) / AMCULT 295: Sexuality in Western Culture (*when not taken as the foundational course*)
 - WGS 305 (WOMENSTD 305) / ALA 306: Interdisciplinary & Intersectional LGBTQ Health
 - WGS (WOMENSTD) / POLSCI 308: Law and the Politics of Sexuality
 - WGS 312 (WOMENSTD 312): Queering US Immigration History
 - WGS (WOMENSTD) / HISTORY 327: History of Sexuality
 - WGS 341 (WOMENSTD 341): Special Topics in LGBTQ Studies
 - WGS 343 (WOMENSTD 343): Topics in Gender, Race & Ethnicity in the U.S., *section titled "Queering US Immigration History" (W18)*
 - WGS 348 (WOMENSTD 348) / SOC 345: Sociology of Sexuality
 - WGS (WOMENSTD) / ASIAN 352: Gender, Sexuality, and Power in Premodern China
 - WGS (WOMENSTD) / AMCULT 366 / HISTORY 353: Sex and Sexuality in U.S. Popular Culture
 - WGS (WOMENSTD) / HISTORY 370 / AMCULT 375: Queer Histories of the United States, 1850 to the present
 - WGS 380 (WOMENSTD 380) / RCCORE 334: Special Topics, *section titled "Out of the Past: 20th Century LGBT History" (F18)*
 - WOMENSTD / AAS 390: Homophobia in the Black World
 - WGS (WOMENSTD) / PSYCH 394: Sex, Sexuality and Public Policy
 - WGS 407 (WOMENSTD 407): Intersexualities
 - WGS (WOMENSTD) / AMCULT 411: Rednecks, Queers, and Country Music: Identity and Social Status in Popular Culture
 - WGS (WOMENSTD) / RCSSCI / ANTHRCUL 428: Sex Panics in the U.S. and UK
 - WGS (WOMENSTD) / COMM 429: Sexual Identities and the Media
 - WGS 431 (WOMENSTD 431): Advanced Topics in LGBTQ Studies
 - WGS 432: Advanced Topics in Gender and Health, *section titled "LGBTQ Reproductive Health"*
 - WGS (WOMENSTD) / ANTHRCUL 446: Sex in the City: Urban Geography and Sexual Locations
 - WGS 449 (WOMENSTD 449) / SOC 445: Diagnosis, Sex & Society
 - WGS 450 (WOMENSTD 450): Popular Music, Gender, and Sexuality (*only through*

WN20)

- WGS 452 (WOMENSTD 452) / PSYCH 414: Sexuality and Science
- WGS 454: What is Marriage?: Histories and Structures of Marital Institutions
- WGS (WOMENSTD) / SOC 465 / PSYCH 488: Sociological Analysis of Deviance
- WGS 470 (WOMENSTD 470) / HISTORY 471: Gender and Sexuality in India
- WGS 471 (WOMENSTD 471) / HISTORY 429 / MIDEAST 432 / RELIGION 496: Gender and Sexuality in Pre-Modern Islam
- WGS (WOMENSTD) / PSYCH 494: Adolescent Sexuality

Other courses with over half their content devoted to LGBTQ issues may be approved for the minor by the Women's and Gender Studies Undergraduate Committee, and these will be listed on a special section of the **Women's and Gender Studies web page**.

Linguistics Major

Linguistics investigates all aspects of spoken and written human language. It is especially concerned with the general principles of language structure, its use and acquisition, with the structure and history of particular languages and groups of languages, with the role of language in human experience, and with the techniques employed in analyzing and describing language. The concentration in Linguistics is intended to provide an understanding of human language and its systematic study, as well as provide the opportunity to explore the importance of language in all areas of human life.

The general field of linguistics includes several subfields. Phonetics and phonology are especially concerned with the sounds of speech. Phonetics emphasizes the physical characteristics of speech sounds, and phonology deals with the way in which speech sounds are organized in languages. Syntax examines the way in which smaller units of language, such as words, are organized into the complex structure of phrases and sentences. Semantics seeks to understand how the forms of language are used to express meaning. Historical and comparative linguistics is concerned with the ways in which languages change through time, with the variations in language from place to place, and with the possible relationship among languages. Historical linguistics also includes the study of the history of specific languages and language groups, and the reconstruction of pre-historic languages.

In addition to these subfields of linguistics, several other sub-disciplines relate linguistics to other fields of study. Psycholinguistics treats language in its psychological aspects and is especially concerned with the ways in which cultural patterns and values relate to language structure, use, and change. Sociolinguistics deals with the interrelationship of language and society and with the covariation of language and social form. Computational linguistics is concerned with the utilization of computational techniques in the analysis of language.

Some areas in which the findings of linguistics have found application include: translation, the design and documentation of computer software, language and national policy, speech pathology and speech therapy, the development of writing systems for previously unwritten languages, the teaching of first language skills such as reading and writing, and the teaching of second languages.

Effective Fall 2021

Advising

Advising appointments can be made **here** or by contacting **linguistics@umich.edu**

Prerequisites

None; LING 111, 209, or 210 are recommended. (One of 209 or 210 may count toward the major, but not both.)

Requirements

Minimum Credits: 30

The Linguistics major requires a total of 30 credits at the 300 level or higher, subject to the constraints below.

Required Core Courses (12 credits). All majors are required to take the following four courses in the Linguistics Department. The coursework in LING 313, 315, and 316 should be completed as soon as possible, to ensure that all students gain a solid understanding of Linguistics before electing further courses, especially 497.

1. *LING 313: Sound Patterns.* This course explores two fundamental aspects of the sounds of the world's languages: speech sounds as physical entities (phonetics) and speech sounds as linguistic units (phonology).
2. *LING 315: Introduction to Syntax.* This course examines the rule systems whereby words are organized into phrases and phrases into sentences in natural languages.
3. *LING 316: Aspects of Meaning.* This course introduces students to the study of meaning in language.
4. *LING 497: Capstone Seminar.* This seminar brings previous coursework, particularly the other required courses, to bear on a specific topic that may vary by term. LING 313, 315, and 316 are prerequisites for 497, but may be taken concurrently with permission of instructor.

In extraordinary circumstances, with permission of the Director of Undergraduate Studies, an advanced course in the area of phonetics/phonology, semantics, or syntax could satisfy the LING 313, 315, or 316 requirement.

Electives (18 credits). Beyond the four core courses, majors are encouraged to fill out their program of 30 total credits, in consultation with a Linguistics advisor, using courses from the categories below.

1. *Regular Linguistics Classroom Courses (at least 6 additional credits).* Majors must complete at least 18 total credits of traditional classroom courses offered by the Department of Linguistics. (The core courses account for 12 of these 18 credits.) Note that cross-listed courses count towards this category whether or not students enroll under the LING number, but meet-together courses only count when registered under the LING number.
2. Any remaining credits (up to 12) may be met using the following flexible categories:
 - a. *Independent Study Courses (at most 6 credits).* At most 6 credits of independent study or independent reading courses may count towards the major. For more details, see our **guidelines on independent studies**.
 - b. *Experiential Practice Courses (at most 6 credits).* At most 6 credits of experiential

practice courses may count towards the major. (Note that this is calculated separately from the limit on independent studies; a student might theoretically take 6 credits of each.)

- c. *Cognate and Transfer Courses.* Subject to the limits above, approved cognate courses offered by another program or department and/or approved transfer credits from another institution may count towards the major. Each term, the Linguistics Department posts a list of cognates on its website that are pre-evaluated for the major. Students may also request that courses not on this list (including transfer credit) count towards the major. These requests must be individually evaluated by the Linguistics Director of Undergraduate Studies, who will generally follow **the guidelines linked here**.
- d. *LING 209 or LING 210:* One of these courses, but not both, may count toward the major.

Other Department Policies

Double Major. Because the study of language is quite often interdisciplinary, a major in Linguistics can be designed to integrate very well with other academic fields. As a result, it is very common for Linguistics majors to also major in a second field. An LSA double major requires satisfying all of the requirements for the major of both programs. However, neither LSA nor the Department of Linguistics imposes any limit on "double-counting" courses between majors, allowing students to double-major with substantially fewer than 60 total major credits. (Check with an advisor in the second major, though, to confirm their policy on jointly counted courses.)

Residency

Study Abroad / Transfer Credit

Current students interested in pursuing a study-abroad program or taking any courses at another institution must first meet with the Linguistics Director of Undergraduate Studies to have their courses pre-evaluated for Linguistics major credit. Upon completion of these courses, students must meet again with the Director of Undergraduate Studies to provide material from the course (such as the syllabus, lecture notes, and graded homework, papers, and exams).

Although new transfer students cannot seek pre-evaluation for transfer courses, they should bring as much of this material as possible to the Director of Undergraduate Studies when seeking Linguistics major credit.

Distribution Policy

No course used to fulfill a major requirement may be used toward the **LSA Distribution Requirement**. In addition, courses in the LING subject area may not be used toward the Distribution Requirement.

Honors

The Honors major in Linguistics requires completion of the requirements for the major and, in addition, a senior Honors project leading to an Honors thesis. The thesis must be written under the supervision of a faculty member of the Department of Linguistics and with permission of a department advisor. Students may elect LING 495 and 496 when writing the Honors thesis (but are not required to do so). Finally, LSA requires students in an Honors major to maintain a GPA of 3.4 or higher overall (not just in Linguistics).

Linguistics Minor

Many students in departments across campus develop an interest in language as they pursue their studies, and wish to learn more about the ways in which human language informs and defines human experience. Other career aspirations, however, make it difficult for them to have a full concentration in Linguistics. The academic minor in Linguistics is offered to these undergraduates who wish to enrich their education with extended study in the nature of human language. Such inquiry is regularly sought as a support to the study of a specific language and its literature, as an adjunct to other aspects of developmental and cognitive psychology, or as a tool for minors in other cognate disciplines.

Effective Fall 2021

Exclusions:

A minor in Linguistics is not open to students with a major in the Department of Linguistics.

Advising

Students wishing to pursue an academic minor in Linguistics must develop a specific plan for its completion in consultation with a faculty member of the Undergraduate Committee of the Linguistics Department.

Advising appointments can be made **online** or by contacting **linguistics@umich.edu**

Prerequisites

None. LING 111, 209, or 210 is recommended. (One of 209 or 210 may count toward the minor, but not both.)

Requirements

Minimum Credits: 15

15 credits, all in Linguistics, distributed as follows:

1. **Core:** Two courses chosen from LING 313, 315, and 316, taken in-residence.
2. **Electives:** At least three additional credits in Linguistics must be taken on the Ann Arbor campus at the 300 level or above.
3. **Other:** Up to 6 credits in additional Linguistics courses, including independent study, experiential practice, out-of-residence study-abroad or transfer courses, and either LING 209 or 210, subject to the constraints below. These courses must be at the 300-level or above, with the exception of LING 209 or 210, of which one, but not both, may count.

Constraints

- At most 3 credits of independent study and at most 3 credits of experiential practice are allowed (calculated separately).
- All out-of-residence courses must be approved by the Director of Undergraduate Studies.

Residency

At least 9 credits must be taken in-residence, and all courses taken in-residence must be in Linguistics or in courses cross-listed with Linguistics. All out-of-residence courses must be

approved by the Director of Undergraduate Studies.

Definitions

- ***In Linguistics***: Courses with a LING number or cross-listed with a LING number.
- ***Ann Arbor Campus***: Courses elected at off-campus sites but directed by Ann Arbor faculty. This includes Camp Davis, Biological Station, and Michigan-in-Washington, but NOT STDABRD.
- ***In residence***: Courses elected on the Ann Arbor campus or at off-campus sites directed by Ann Arbor faculty. This includes STDABRD, Camp Davis, Biological Station, and Michigan-in-Washington.

Mathematics Major

Mathematics is the language and tool of the sciences, a cultural phenomenon with a rich historical tradition, and a model of abstract reasoning. Historically, mathematical methods and thinking have been extraordinarily successful in physics and engineering. Today, they are used successfully in many new areas, from computer science to biology and finance. A Mathematics major provides a broad education in various areas of mathematics in a program flexible enough to accommodate a wide range of interests.

The study of mathematics is an excellent preparation for many careers; the patterns of careful logical reasoning and analytical problem solving essential to mathematics are also applicable in contexts where quantity and measurement play only minor roles. Thus students of mathematics may go on to excel in medicine, law, politics, or business as well as any of a vast range of scientific careers. Special programs are offered for those interested in teaching mathematics, in actuarial mathematics, the mathematics of insurance, or financial mathematics. The other programs split between those which emphasize mathematics as an independent discipline and those which favor the application of mathematical tools to problems in other fields. There is considerable overlap here, and any of these programs may serve as preparation for either further study in a variety of academic disciplines, including mathematics itself, or intellectually challenging careers in a wide variety of corporate and governmental settings.

Effective Winter 2021

Advising

Appointments are scheduled online at: lsa.umich.edu/math/undergraduates.. Students are strongly urged to consult with a department advisor each term before selecting courses for the following term.

Grade Policies

All prerequisite courses must be satisfied with a grade of C– or above. Students with lower grades in prerequisite courses must receive special permission of the instructor to enroll in subsequent courses.

Major GPA Calculation

For purposes of calculating grade point average, the term "field of the major" means the

following:

1. All MATH courses.
2. All courses used to meet requirements for the major.
3. All required cognate courses (if any).
4. All mandatory prerequisites.
5. EECS 183
6. ECON 101 and ECON 102 (actuarial mathematics submajor only).

Prerequisites

Most programs require completion of one of the sequences ending with MATH 205-217, 215-217, 285-217, or 295-296. A working knowledge of a high-level computer language such as C++ or a computer algebra system (such as Maple or Mathematica), at a level equivalent to completion of a course of three or more credits, and eight credits of PHYSICS, preferably PHYSICS 140/141 and 240/241, are recommended for all programs and required for some. (A grade of C- or better is strongly suggested for MATH 217.)

Requirements

A student considering a major in Mathematics should consult a mathematics department advisor in the Undergraduate Mathematics Office as early as possible and certainly by the first term of the sophomore year. The department offers many different submajors with varying requirements; failure to meet some of these at the intended time may delay completion of the program and graduation. A plan for the major must be designed with and approved by a department advisor.

- **Pure Mathematics**
- **Mathematical Sciences**
- **Actuarial Mathematics**
- **Mathematics of Finance and Risk Management**
- **Honors Mathematics**
- **Secondary Mathematics Teaching Certificate**

Residency

Minimum number of courses taken in residence for transfer students majoring in Mathematics (applies to all sub-plans) Students should take a minimum of 18 credits at the University of Michigan, Ann Arbor campus. Six of these credits must come from the basic courses and nine from the core courses and/or cognate courses. The 18 credits may include prerequisites taken in Math.

Distribution Policy

No course used to fulfill a major requirement may be used toward the **LSA Distribution Requirement**. In addition, courses in the MATH subject area may not be used toward the Distribution Requirement.

Actuarial Mathematics (Sub-Major)

The **Actuarial Mathematics** Program is designed to provide broad training in the mathematics underlying the operations of private and social insurance and employee benefit plans. The

courses provide background for several of the examinations of the Casualty Actuarial Society and the Society of Actuaries. It is strongly recommended that students pass some of these exams before graduation. Summer internships are an important component of the educational program and students are encouraged to seek an internship no later than the conclusion of their junior year. Actuarial advisors can provide guidance on the professional examinations and on summer internships.

Effective Winter 2020

Advising

Appointments are scheduled online at: lsa.umich.edu/math/undergraduates. Students are strongly urged to consult with a department advisor each term before selecting courses for the following term.

Grade Policies

All prerequisite courses must be satisfied with a grade of C– or above. Students with lower grades in prerequisite courses must receive special permission of the instructor to enroll in subsequent courses.

For purposes of calculating grade point average, the term "field of the major" means the following:

1. All MATH courses.
2. All courses used to meet requirements for the major.
3. All required cognate courses (if any).
4. All mandatory prerequisites.
5. ECON 101, ECON 102, and EECS 183

Prerequisites

Prerequisites for all Mathematics Majors

Completion of one of the sequences ending with MATH 205-217, 215-217, 285-217, or 295-296. A working knowledge of a high-level computer language such as C++ or a computer algebra system (such as Maple or Mathematica), at a level equivalent to completion of a course of three or more credits, and eight credits of PHYSICS, preferably PHYSICS 140/141 and 240/241, are recommended for all programs and required for some. (A grade of C- or better is strongly suggested for MATH 217.)

Additional prerequisites for the Honors Mathematics Submajor

Completion of one of the sequences ending with MATH 205-217, 215-217, 285-217, 295-296, or 217-297. (A grade of C- or better is strongly suggested for MATH 217.)

Students intending an Honors major are strongly advised to take one of the Honors introductory sequences MATH 156-286, 175-286, 185-286, 295-396, or 217-297 or some combination of these five. The sequence MATH 295-396 is very theoretical. Eight credits of PHYSICS and familiarity with a high-level computer language are strongly recommended.

Requirements

A minimum of 11 courses, selected from the following:

- A. **Four basic courses** (one from each of the following four groups), completed with a grade of at least C-:
 - *Differential Equations*: MATH 286 or 316

- *Probability*: MATH 425
 - *Statistics*: STATS 426
 - *Analysis*: MATH 351 or 451
- B. **Five special courses for Actuarial Mathematics:**
MATH 423, MATH 424, MATH 520 MATH 523, and at least one of MATH 521 or MATH 524
- C. **Two additional courses** in areas relating to Actuarial Mathematics approved by an advisor.

Residency

Minimum number of courses taken in residence for transfer students majoring in **Mathematics** (applies to all sub-plans): Students should take a minimum of 18 credits at the University of Michigan, Ann Arbor campus. Six of these credits must come from the basic courses and nine from the core courses and/or cognate courses. The 18 credits may include prerequisites taken in Math.

Distribution Policy

No course used to fulfill a major requirement may be used toward the **LSA Distribution Requirement**. In addition, courses in the MATH subject area may not be used toward the Distribution Requirement.

Honors Mathematics (Sub-Major)

Outstanding students may elect an Honors major in Mathematics. The Honors Program is designed not only for students who expect to become mathematicians but also for students whose ultimate professional goal lies elsewhere (e.g., in the humanities, law, ...).

Effective Winter 2021

Grade Policies

All prerequisite courses must be satisfied with a grade of C– or above. Students with lower grades in prerequisite courses must receive special permission of the instructor to enroll in subsequent courses.

For purposes of calculating grade point average, the term "field of the major" means the following:

1. All MATH courses.
2. All courses used to meet requirements for the major.
3. All required cognate courses (if any).
4. All mandatory prerequisites.
5. EECS 183

Prerequisites

Prerequisites for all Mathematics Majors

Completion of one of the sequences ending with MATH 205-217, 215-217, 285-217, or 295-296. A working knowledge of a high-level computer language such as C++ or a computer algebra system (such as Maple or Mathematica), at a level equivalent to completion of a course of three

or more credits. (A grade of C- or better is strongly suggested for MATH 217.)

Additional prerequisites for the Honors Mathematics Submajor

Completion of one of the sequences ending with MATH 205-217, 215-217, 285-217, 295-296, or 217-297. (A grade of C- or better is strongly suggested for MATH 217.)

Students intending an Honors major are strongly advised to take one of the Honors introductory sequences MATH 156-286, 175-286, 185-286, 295-396, or 217-297 or some combination of these five. The sequence MATH 295-396 is very theoretical. Familiarity with a high-level computer language is strongly recommended.

Requirements

The Honors major program must include at least nine courses: (A) four basic courses, (B) four elective courses, and (C) one cognate course as described below.

- A. The basic courses consist of one from each of groups 1, 2, 3, and 4 or groups 1, 2, 5, 6 below, completed with a grade of at least C-:
 1. Linear Algebra: MATH 420, 494, or 571
 2. Analysis: MATH 451
 3. Modern Algebra: MATH 493
 4. Geometry/Topology: MATH 431, 433, 490, or 590
 5. Probability: MATH 525
 6. Differential Equations: MATH 404, 454, 556, 557, or 558

Students who complete MATH 295&296 OR MATH 217&297, with a grade of at least a C- are exempt from MATH 451.

Students who complete MATH 295&395 OR MATH 297&395, with a grade of at least a C- are exempt from MATH 420.

- B. The four elective courses must be chosen in consultation with an Honors advisor to provide a cohesive program which explores an area of mathematics in some depth. There is a good deal of freedom allowed here, but a random selection of courses will not satisfy this requirement. The courses should be chosen from the approved list or have a course number 600 or above. MATH 289 is a repeatable 1-credit course and can be used to satisfy the elective requirement only if taken for a total of 3 credits. A Mathematics Honors advisor may approve another mathematics course or a course from another department with advanced mathematical content as one of these elective courses. The Mathematics Honors advisor may ask that the student arrange supplemental work in a given class conform to expectations for an Honors elective. A student electing to satisfy requirement A by choosing courses from groups 1, 2, 5, and 6 must complete a course in Complex Analysis (MATH 555 or 596) as one of his/her electives.
 - C. One cognate course from outside the Mathematics department, but containing significant mathematical content, chosen with the approval of the Honors advisor.

Students who, in the judgment of the Departmental Honors Committee, have completed an Honors major with distinction are granted a citation upon graduating. Interested students should discuss their program and the specific requirements for obtaining the citation with a Mathematics Honors advisor (appointments scheduled at: lsa.umich.edu/math/undergraduates) no later than

the second term of their sophomore year.

Residency

Minimum number of courses taken in residence for transfer students majoring in **Mathematics** (applies to all sub-plans): Students should take a minimum of 18 credits at the University of Michigan, Ann Arbor campus. Six of these credits must come from the basic courses and nine from the core courses and/or cognate courses. The 18 credits may include pre-requisites taken in Math.

Distribution Policy

No course used to fulfill a major requirement may be used toward the **LSA Distribution Requirement**. In addition, courses in the MATH subject area may not be used toward the Distribution Requirement.

Mathematical Sciences (Sub-Major)

The Mathematical Sciences Program is designed to provide broad training in basic mathematics together with some specialization in an area of application of mathematics.

Effective Winter 2021

Advising

Appointments are scheduled online at: lsa.umich.edu/math/undergraduates. Students are strongly urged to consult with a department advisor each term before selecting courses for the following term.

Grade Policies

All prerequisite courses must be satisfied with a grade of C– or above. Students with lower grades in prerequisite courses must receive special permission of the instructor to enroll in subsequent courses.

For purposes of calculating grade point average, the term "field of the major" means the following:

1. All MATH courses.
2. All courses used to meet requirements for the major.
3. All required cognate courses (if any).
4. All mandatory prerequisites.
5. EECS 183

Prerequisites

Prerequisites for all Mathematics Majors

Completion of one of the sequences ending with MATH 205-217, 215-217, 285-217, or 295-296. A working knowledge of a high-level computer language such as C++ or a computer algebra system (such as Maple or Mathematica), at a level equivalent to completion of a course of three or more credits. (A grade of C- or better is strongly suggested for MATH 217.)

Additional prerequisites for the Mathematical Sciences Submajor

Completion of one of the sequences ending with MATH 205-217, 215-217, 285-217, or 295-296. In addition, students must acquire a working knowledge of a high-level computer language (e.g., Fortran, C, or C++) at a level equivalent to the completion of EECS 183. Students pursuing the Mathematical Biology option are also required to take the Introductory Biology lectures (BIOLOGY 171 and either 172 or 174; or BIOLOGY 192; or BIOLOGY 195). Students pursuing the Mathematical Physics option are required to take PHYSICS 140/141 and 240/241 or PHYSICS 160/161 and 260/261. Some of the options have additional requirements as noted below.

Requirements

Each student must select one of the eight Program Options as a special area.

A. Basic Courses

The basic courses consist of one from each of the following four groups **completed with a grade of at least C-**:

- Differential Equations: MATH 286, or 316
- Discrete Math/Modern Algebra: MATH 312, 412, 465, or 493
- Analysis: MATH 351, 354, 450, 451, or 454
- Probability: MATH 425 or 525

B. Program Options

At least three courses from ONE of the Program Options listed below (the list of possible electives for each option is given on the **departmental website**):

- Discrete and Algorithmic Methods
- Numerical and Applied Analysis
- Operations Research and Modeling
- Probabilistic Methods
- Mathematical Economics
- Control Systems
- Mathematical Physics
- Mathematical Biology

C. Advanced Courses

Two additional advanced mathematics (or related) courses selected from either

1. courses taught outside the department which emphasize the application of significant mathematical tools (at least at the level of MATH 215) in another discipline at the 300 level or above, or
2. mathematics courses numbered 400 or above

In all cases, approval of an advisor is required. This is a very flexible requirement to accommodate special interests and may be satisfied by a broad range of courses in other departments.

Other Department Policies

- At least two of the courses used toward the Program Options and Advanced Courses must be MATH courses.
- At least one of the courses used toward the Program Options and Advanced Courses must be taken outside the department and be at the 300 level or above.

Residency

Minimum number of **courses taken in residence for transfer students majoring in Mathematics** (applies to all sub-plans): Students should take a minimum of 18 credits at the University of Michigan, Ann Arbor campus. Six of these credits must come from the basic courses and nine from the core courses and/or cognate courses. The 18 credits may include pre-requisites taken in Math.

Distribution Policy

No course used to fulfill a major requirement may be used toward the **LSA Distribution Requirement**. In addition, courses in the MATH subject area may not be used toward the Distribution Requirement.

Mathematics of Finance & Risk Management (Financial Mathematics) (Sub-Major)

The program in **Mathematics of Finance and Risk Management** (or **Financial Mathematics** for short) is designed to provide a broad education in the quantitative aspects of risk management and finance. Financial instruments which are engineered today require sophisticated mathematical techniques for their valuation. These techniques come from the fields of probability, statistics and differential equations.

Effective Winter 2021

Advising

Appointments are scheduled online at: lsa.umich.edu/math/undergraduates. Students are strongly urged to consult with a department advisor each term before selecting courses for the following term.

Grade Policies

All prerequisite courses must be satisfied with a grade of C– or above. Students with lower grades in prerequisite courses must receive special permission of the instructor to enroll in subsequent courses.

For purposes of calculating grade point average, the term "field of the major" means the following:

1. All MATH courses.
2. All courses used to meet requirements for the major.
3. All required cognate courses (if any).
4. All mandatory prerequisites.
5. ECON 101, ECON 102, and EECS 183

Prerequisites

Prerequisites for all Mathematics Majors

Completion of one of the sequences ending with MATH 205-217, 215-217, 285-217, or 295-296. A working knowledge of a high-level computer language such as C++ or a computer algebra system (such as Maple or Mathematica), at a level equivalent to completion of a course of three or more credits, and eight credits of PHYSICS, preferably PHYSICS 140/141 and 240/241, are recommended for all programs and required for some. (A grade of C- or better is strongly suggested for MATH 217.)

Additional prerequisites for the Mathematics of Finance and Risk Management

Submajor

MATH 215&217, 285&217 or MATH 295&296. Each student must also complete: ECON 101 and 102 and EECS 183 all elected on a graded basis. The grade for ECON 101, ECON 102, and EECS 183 will be included in the major GPA.

Requirements

A minimum of 10 courses, selected from the following:

- a. **Four basic courses** (one from each of the following four groups), completed with a grade of at least C-:
 1. *Differential Equations*: MATH 286 or 316
 2. *Probability*: MATH 525
 3. *Statistics*: STATS 426
 4. *Analysis*: Math 351 or 451
- b. **Four special courses for Financial Mathematics**:
MATH 423, MATH 474, MATH 472 (or 471), MATH 526.
- c. **Two additional courses** in areas relating to Financial Mathematics approved by an advisor.

Residency

Minimum number of **courses taken in residence for transfer students majoring in Mathematics** (applies to all sub-plans): Students should take a minimum of 18 credits at the University of Michigan, Ann Arbor campus. Six of these credits must come from the basic courses and nine from the core courses and/or cognate courses. The 18 credits may include pre-requisites taken in Math.

Distribution Policy

No course used to fulfill a major requirement may be used toward the **LSA Distribution Requirement**. In addition, courses in the MATH subject area may not be used toward the Distribution Requirement.

Pure Mathematics (Sub-Major)

The Pure Mathematics Program is designed to provide broad training in basic modern mathematics including an introduction to the methods of rigorous mathematical proof and exposure to the major areas: Algebra, Analysis, and Geometry/Topology.

Effective Winter 2022

Advising

Appointments are scheduled online at: lsa.umich.edu/math/undergraduates. Students are strongly urged to consult with a department advisor each term before selecting courses for the following term.

Grade Policies

All prerequisite courses must be satisfied with a grade of C– or above. Students with lower grades in prerequisite courses must receive special permission of the instructor to enroll in subsequent courses.

For purposes of calculating grade point average, the term "field of the major" means the following:

1. All MATH courses.
2. All courses used to meet requirements for the major.
3. All required cognate courses (if any).
4. All mandatory prerequisites.
5. EECS 183

Prerequisites

Prerequisites for all Mathematics Majors

Completion of one of the sequences ending with MATH 205-217, 215-217, 285-217, or 295-296. A working knowledge of a high-level computer language such as C++ or a computer algebra system (such as Maple or Mathematica), at a level equivalent to completion of a course of three or more credits, and eight credits of PHYSICS, preferably PHYSICS 140/141 and 240/241, are recommended for all programs and required for some. (A grade of C- or better is strongly suggested for MATH 217.)

Additional prerequisites for the Pure Mathematics Submajor

Completion of one of the sequences ending with MATH 205-217, 215-217, 285-217, or 295-296. (A grade of C- or better is strongly suggested for MATH 217.)

All Pure Mathematics majors are also strongly encouraged to take PHYSICS 140-141 and 240-241 and to acquire a working knowledge of a high-level computer language (e.g., Fortran, C, or C++) at a level equivalent to the completion of EECS 183.

Requirements

- a. **Four basic courses** (one course from each of the following four groups), completed with a grade of at least C-:
 - Modern Algebra: MATH 312, 412 or 493
 - Differential Equations: MATH 286, or 316
 - Analysis: MATH 351 or 451
 - Geometry/Topology: MATH 431, 433, 490, or 590
- b. **Four elective courses** (mathematics) chosen from a list of approved electives and approved by a department advisor.
- c. **One cognate course** outside the Mathematics Department, but with advanced mathematical content.

Residency

Minimum number of **courses taken in residence for transfer students majoring in Mathematics** (applies to all sub-plans): Students should take a minimum of 18 credits at the University of Michigan, Ann Arbor campus. Six of these credits must come from the basic courses and nine from the core courses and/or cognate courses. The 18 credits may include pre-requisites taken in Math.

Distribution Policy

No course used to fulfill a major requirement may be used toward the **LSA Distribution Requirement**. In addition, courses in the MATH subject area may not be used toward the Distribution Requirement.

Secondary Mathematics Teaching Certificate (Sub-Major)

The Teaching Certificate program is designed to provide the broad training in mathematics necessary to be a successful teacher of mathematics at the secondary level, grades 6-12. The requirements for a secondary teaching certificate with a major in mathematics may be met while earning a degree from the College of Literature, Science, and the Arts (A.B. or B.S.) or from the School Education (A.B. Ed. or B.S. Ed.). Requirements for the major are identical for all of these degrees, although LSA and Education have somewhat differing language and distribution requirements. LSA degree candidates must earn at least 100 LSA credits and at least 30 Education credits. Please note that the LSA B.S. degree requires 60 credits in physical and natural science and mathematics; students with less than 60 credits may be eligible for an A.B. degree.

Appointments with the Mathematics Department teaching certificate advisor may be scheduled online at: lsa.umich.edu/math/undergraduates.

For information specific to the School of Education, students should contact the SOE Teacher Education Office, 1228 SEB, 734-615-1528, te.program@umich.edu, www.soe.umich.edu/academics. It is essential that students planning to obtain a teaching certificate consult a teaching certificate advisor, either in Mathematics or Education, prior to the end of the 1st term of their sophomore year.

Effective Fall 2016

Advising

Appointments are scheduled online at: lsa.umich.edu/math/undergraduates. Students are strongly urged to consult with a department advisor each term before selecting courses for the following term.

Grade Policies

All prerequisite courses must be satisfied with a grade of C– or above. Students with lower grades in prerequisite courses must receive special permission of the instructor to enroll in

subsequent courses.

For purposes of calculating grade point average, the term "field of the major" means the following:

1. All MATH courses.
2. All courses used to meet requirements for the major.
3. All required cognate courses (if any).
4. All mandatory prerequisites.
5. EECS 183

Prerequisites

Prerequisites for all Mathematics Majors

Completion of one of the sequences ending with MATH 205-217, 215-217, 256-217, 285-217, or 395-396. A working knowledge of a high-level computer language such as C++ or a computer algebra system (such as Maple or Mathematica), at a level equivalent to completion of a course of three or more credits, and eight credits of PHYSICS, preferably PHYSICS 140/141 and 240/241, are recommended for all programs and required for some. (A grade of C- or better is strongly suggested for MATH 217.)

Additional prerequisites for the Secondary Mathematics Teaching Certificate Submajor

One of the pair of courses MATH 205&217, 215&217, MATH 255&217, MATH 285&217, or MATH 295&296. Additionally, students must complete one term of computer programming, EECS 183 or equivalent.

Requirements

Basic Courses = The basic courses for a candidate for a teaching certificate consist of one course from each of the following five groups (chosen with the approval of a teaching certificate advisor), completed with a grade of at least a C-:

1. Modern Algebra/Number Theory: MATH 487 or 475
2. Geometry: MATH 431 or 531
3. Probability: MATH 425 or 525
4. Analysis: MATH 351 or 451
5. Secondary Mathematics: MATH 486

Specific Courses (or core/cognate courses) = The program requires 10 specific Education courses, listed below, totaling 30 credits. These are elected in the junior and senior years in a specified order. Consult with the School of Education Office of Student Services for the order and timing of these courses.

- **Methods of Teaching Mathematics (or minor field):** EDUC 413 (3 credits)
- **Practicum in Teaching Methods:** EDUC 307I and 307II (4 credits)
- **Educational Psychology:** EDUC 391 (3 credits)
- **Reading and Writing:** EDUC 402 (3 credits)
- **Education in a Multi-cultural Society:** EDUC 392 (3 credits)
- **Directed Teaching:** EDUC 302 (10 credits)
- **Problems and Principles of Secondary Education:** EDUC 304 (2 credits)
- **Teaching with Digital Technologies 6-12:** EDUC 446 (1 credit)
- **Teaching Students with Exceptionalities in the General Education Middle and High School Classroom:** EDUC 445 (1 credit)

The last four of these are to be elected concurrently. **Students must apply for admission to the certification program by January 15 of their sophomore year.** Application forms are available at the School of Education.

Additionally, every student must successfully complete:

- an introductory course in psychology (not PSYCH 112) that is to be taken before EDUC 391, and
- Michigan's licensure requirements (see www.soe.umich.edu/licensure_in_michigan/).

Every Teaching Certificate student must present a SOE major or SOE minor in another academic field. This normally requires 20-24 credits in a structured program in an area other than mathematics. Consult the *Bulletin* of the School of Education for acceptable programs.

Residency

Minimum number of courses taken in residence for transfer students majoring in **Mathematics** (applies to all sub-plans) *Effective Fall 2015*: Students should take a minimum of 18 credits at the University of Michigan, Ann Arbor campus. Six of these credits must come from the basic courses and nine from the core courses and/or cognate courses. The 18 credits may include pre-requisites taken in Math.

Distribution Policy

No course used to fulfill a major requirement may be used toward the **LSA Distribution Requirement**. In addition, courses in the MATH subject area may not be used toward the Distribution Requirement.

Mathematics Minor

The minor in Mathematics is designed to enable a student with a significant interest in Mathematics to deepen his/her knowledge while pursuing a major in another field. While the major will often be in a field that makes significant use of mathematics, such as a science or a quantitative social science, it may be in any area of study.

Effective Winter 2021

Exclusions:

An academic minor in Mathematics is not open to students with any major in Mathematics. However, a student who graduated with an academic minor in Mathematics may return to complete a major in Mathematics. Per LSA rules, at least 9 credits must be taken in residence. The student must earn an overall GPA of at least 2.0 for the minor. All in-residence credit MUST be taken in the Mathematics Department. In all cases, more advanced courses may be substituted with the approval of a math advisor. In particular, students who have satisfied the prerequisite with the Honors Sequence Math 295-296 or 217-297 will need to consult an advisor for the proper selection of courses. Other modifications can also be made with the approval of a math advisor. Finally, classes offered outside Mathematics CANNOT be used to satisfy the requirements of the Math Minor.

Advising

Students wishing to pursue a minor in Mathematics must develop a specific plan for its completion in consultation with an advisor. Appointments are scheduled **on-line**

Students are strongly urged to consult with a department advisor each term before selecting courses for the following term.

Grade Policies

All courses for the minor program, including prerequisites, must be completed with a grade of at least a C-. Students with lower grades in prerequisite courses must receive special permission of the instructor to enroll in subsequent courses.

Prerequisites

One of the sequences MATH 115&116, 175&176, 185&186, or 295&296, 217-297; or MATH 156. These all provide a thorough grounding in the calculus of functions of one variable.

Advanced Placement credits in MATH 120 and 121 also meet the prerequisite requirement. Students who satisfy the prerequisites with the honors sequence 295-296 or 217-297 will need to consult an advisor for the proper selection of courses.

Requirements

Minimum Credits: 15

15-18 credits of courses, A student must select at least 5 courses consisting of at least 1 Basic Course and at least 2 Upper-Level Courses. No more than one course may be elected from each of the three areas under the Basic Courses.

Basic courses:

- *Multivariable Calculus:* MATH 215, or 285
- *Linear Algebra:* MATH 214, 217, 417, or 419
- *Differential Equations:* MATH 216, or 286

Upper-level courses:

- *Analysis/Differential Equations:* MATH 316, 351, 354, 404, 450, 451, 452, 454, 555
- *Algebra/Number Theory:* MATH 312, 389, 412, 420, 471, 475, 493, 494, 561, 571, 575
- *Geometry/Topology:* MATH 431, 433, 490
- *Applied Mathematics:* MATH 354, 371, 404, 423, 425, 445, 450, 454, 462, 463, 471, 472, 550, 561, 563, 571
- *Discrete Mathematics:* MATH 310, 312, 389, 403, 412, 416, 420, 425, 465, 475, 481, 561, 566, 567, 582
- *Financial/Actuarial Mathematics:* MATH 423, 424, 472, 520, 521, 523, 524

Medical Anthropology Minor

Anthropology at the University of Michigan emphasizes four-field training. Our majors gain anthropological understanding of the human condition through exposure to Sociocultural

Anthropology, Biological Anthropology, Anthropological Archaeology, and Linguistic Anthropology and their many interrelationships. Many students, however, take our courses to supplement other majors or out of general interest and have less need for four-field training. Academic minors in anthropology may benefit these students, providing structure to their course elections, and allowing thoughtful integration of anthropology into their academic plans. The department offers three minors: **Anthropology**, **Biological Anthropology**, and **Medical Anthropology**.

The minor in Medical Anthropology allows students to focus on the social basis of illness and healing from different cultural perspectives. The minor might be elected by students interested in client-practitioner interactions, traditional and complementary medicine, the production of medical knowledge, body politics, bioethics, and reproductive health, among other topics. It might also be relevant for those students interested in adding anthropological perspective to their preparation for a career in medicine, public health, or other health sciences.

Effective Winter 2015

Exclusions:

*Not open to students electing the **Science, Technology, and Society** minor in the Residential College or any other minor in the Department of Anthropology.*

Advising

All anthropology faculty members are available for informal discussion with students during scheduled office hours (check the Department office for times).

Department advisors are available to explain program objectives and requirements and to help with the planning of your program.

Students wishing to pursue a minor in the Department of Anthropology should contact the undergraduate advisor with any questions.

Appointments are scheduled in the Department office or **online**.

Prerequisites

None, but ANTHRCUL 101 or 222 are recommended.

Requirements

Minimum Credits: 16

At least five courses (no fewer than 16 credits), to be chosen from the following categories as stated. The minor must include at least two courses at the 300-level or above.

1. **Core:** ANTHRCUL 344, Medical Anthropology
2. **Area and topical courses.** Choose four courses from the following list:
 - ANTHR BIO 297: Topics in Biological Anthropology, *section titled, "The Ghost in Your Genes: Epigenetics" (F18)*
 - ANTHR BIO 342 / ANTHRCUL 342: Nature/Culture Now!
 - ANTHRCUL 254: The Anthropology of Food (*only if elected FA21 or later*)
 - ANTHRCUL 341: The Globalization of Biomedicine (*only if elected FA20 or later*)
 - ANTHR BIO 363: Genes, Disease, Culture

- ANTHRBIO 364: Nutrition & Evolution
- ANTHRBIO 462: Human Growth and Development across the Life Cycle
- ANTHRCUL 232: Genes, Genealogies, Identities: Anthropological Perspectives
- ANTHRCUL 256: Culture, Adaptation and Environment
- ANTHRCUL 258: Honors Seminar in Anthropology. *section subtitled "Culture & Medicine"*
- ANTHRCUL 325 / WGS 324 (WOMENSTD 324): Childbirth & Culture
- ANTHRCUL / RCSSCI 327: Critical Theory in Medicine and Health
- ANTHRCUL 341: The Globalization of Biomedicine (F18)
- ANTHRCUL / ANTHRBIO 342: Nature/Culture Now!
- ANTHRCUL 352: Anthropology of the Body
- ANTHRCUL / HISTART 354: Art: Science, and Technology
- ANTHRCUL / HISTORY / AAS 355: Health & Illness in African Worlds
- ANTHRCUL 408 / AAS 409: Maternal/Child Health & Environmental Pollution in Africa
- ANTHRCUL 337 (437): The Anthropology of Death, Dying, and the Afterlife
- ANTHRCUL 458: Topics in Sociocultural and Linguistic Anthropology, *sections titled "Contested Illness&Anthro Theories of the Body" or "Environmental Health & Inequality in Mexico City" (F18)*
- AAS / HISTORY / ANTHRCUL 355: Health & Illness in African Worlds
- AAS / WGS 365 (WOMENSTD 365): Global Perspectives on Gender, Health, & Reproduction
- AAS 409 / ANTHRCUL 408: Maternal/Child Health & Environmental Pollution in Africa
- HISTART / ANTHRCUL 354: Art, Science, and Technology
- HISTORY / AAS / ANTHRCUL 355: Health & Illness in African Worlds
- NURSING 225 / WGS (WOMENSTD) 212: The Global HIV/AIDS Epidemic (*only if elected before FA21*)
- RCSSCI / ANTHRCUL 327: Critical Theory in Medicine and Health
- WGS (WOMENSTD) / ANTHRCUL / NURSING 225: The Global HIV/AIDS Epidemic
- WGS 324 (WOMENSTD 324) / ANTHRCUL 325: Childbirth & Culture
- WGS (WOMENSTD) / AAS 365: Global Perspectives on Gender, Health, & Reproduction

3. or a course(s) approved by the Undergraduate Advisor.

Medieval and Early Modern Studies Minor

Have you ever wondered about the past? Or just been curious about the actual myths and legends behind Yggdrasil--not the Marvelverse version? Japanese ghosts and monsters? Early English-language protest literature? Books that were banned in Italy for their "corrupting" messages? Middle Eastern food and drink? If you answered "yes" to any of these, or even if they just piqued your interest, then the Minor in Medieval and Early Modern Studies could be for you.

Michigan's MEMS program is one of the few in the country that thinks of the world before today in global terms (rather than just looking at Europe), and the minor is designed to let you

take advantage of that. Our world has always been interconnected, and we believe students who are able to see beyond today are able to not only better appreciate the past and present, but also think creatively about the future. For the minor, students choose two regions of the world to explore (Africa, the Americas, Asia, Europe, the Middle East) and two lenses through which to do so (for example, material culture; women and gender; literature, religion, food history, colonialism, and more). The minor is designed to give its students both the flexibility to pursue their particular interests but also to offer enough structure to let them maximize their investigations of the variety of ideas and experiences that have brought us where we are today.

The MEMS minor offers students:

- an individually curated plan to encourage growth and meet interests
- participation in a global community of students and scholars
- a new understanding of the networks that shape our world today

Effective Fall 2011

Advising

Students wishing to pursue a minor in Medieval and Early Modern Studies must develop a specific plan for its completion in consultation with the Program's **designated advisor**. Appointments are scheduled at the Program Office.

Prerequisites

None.

Requirements

Minimum Credits: 15

15 credit hours (and five courses), including at least two upper-division courses, in the medieval and early modern periods, chosen in consultation with the MEMS department advisor. These courses must include

1. **Geographic area courses.** Select one course from two of these five areas:
 - a. African cultures
 - b. American cultures
 - c. Asian cultures
 - d. European cultures
 - e. Middle Eastern cultures
2. **Disciplinary courses.** Select one course from three of these four disciplines:
 - a. historical studies
 - b. art historical or archaeological studies
 - c. language or literary studies
 - d. musicological studies

A single course may count toward both geographic and disciplinary distribution requirements. With the approval of the department advisor, students whose major includes a medieval and early modern studies course in one of these disciplinary categories may substitute one course from a discipline different from that of the major.

Microbiology Major

Microbiology is an Interdepartmental Program supervised by the Microbiology Major Committee, with academic support provided by the Program in Biology. Participating units include the Departments of Ecology and Evolutionary Biology (EEB) and Molecular, Cellular, and Developmental Biology (MCDB) in LSA; the Epidemiology Department in the School of Public Health; and the Departments of Microbiology & Immunology and Internal Medicine in the Medical School.

Microbiology includes the study of viruses, algae, bacteria, protozoa, and fungi. Immunobiology is also included within the science of microbiology. A major in microbiology prepares students for graduate study in microbiology, biochemistry, agricultural science, and food science as well as for study in other areas of biology which emphasize cellular structures and their function. A bachelor's degree in microbiology may qualify students for entry-level positions in medical, industrial, or governmental laboratories.

Students intending to go to graduate school should have at least two terms of research experience. These can appear as graded courses, UROP participation, or be independent of the graded curriculum. Most graduate school-bound students will have 1-2 graded research courses (2-4 credits/each) on record.

Effective Fall 2019

Exclusions:

Students who elect a major in Microbiology may not elect the following majors: Biology, Biology, Health, and Society (formerly known as General Biology); Cellular and Molecular Biology (CMB); CMB:BME; Ecology, Evolution, and Biodiversity; Ecology and Evolutionary Biology; Ecology, Evolution, and Biodiversity; Molecular, Cellular, and Developmental Biology (MCDB); Plant Biology; Biochemistry; Biomolecular Science; or Neuroscience. They may also not elect a minor in Biology, Ecology and Evolutionary Biology, Plant Biology; Chemistry; or Biochemistry.

Advising

Students are advised by a combination of Undergraduate Biology Office staff and faculty department advisors. Advising topics include investigating majors, declaring a major, course planning, research and honors, major releases, graduate school and career advice. Students who are interested in the Microbiology major should consult a general advisor during the freshman year, and are strongly encouraged to meet with a department advisor early in their academic career, but no later than the second term of their sophomore year. It is not necessary to complete every prerequisite before declaring a major. To make an appointment, go to the Program in Biology website at <http://www.lsa.umich.edu/biology/>.

Grade Policies

Total Credits and GPA Requirement for Microbiology:

Minimum 31 cr. in Major

Minimum 2.0 GPA in Major

GPA is calculated from all mandatory prerequisites, all courses used for major requirements (including cognates), and all courses in BIOLOGY, EEB, MCDB, EPID, INTMED, and MICRBIOL.

The introductory biology sequence must be taken for a grade. Prerequisites other than introductory biology may be taken pass/fail; however, it is not recommended, especially for chemistry. Remember that at least a C- must be earned to pass a course taken pass/fail. Courses used for the major may not be taken pass/fail.

Prerequisites

Introductory Biology Sequence:

Choose Sequence A, B, or C:

- A. BIOLOGY 171, BIOLOGY 172 or 174, & BIOLOGY 173; or
- B. BIOLOGY 195 (AP/IB) & BIOLOGY 173; or
- C. BIOLOGY 191 (transfer credit), BIOLOGY 192, & BIOLOGY 173

Chemistry Sequence:

- CHEM 210 & 211; and,
- CHEM 215 & 216

Quantitative Analysis Sequence:

Choose any four courses from the following:

- Calculus I (MATH 115, 120 (AP), 175, 185, or 295)
- Calculus II (MATH 116, 121 (AP), 156, 176, 186, or 296)
- Physics I (PHYSICS 125, 135, 139 (AP), 140, 150, or 160)
- Physics II (PHYSICS 126, 235, 239 (AP), 240, 250, or 260)
- Computer Programming (EECS 183, 203, or 280)
- Statistics (STATS 180 (AP), 250, or 280); STATS 400-level or above (min. 3 credits);
- BIOLOGY 202; BIOPHYS/PHYSICS 290;
- Other course with a MATH 115 prereq. approved by a major advisor

[Note: Any course used to fulfill this requirement cannot also be used as a major elective; i.e., a course cannot "double-count."]

Requirements

Minimum Credits: 31

Core Courses:

- Microbiology: BIOLOGY 207
- Genetics: BIOLOGY 305
- Biochemistry: Choose from: MCDB 310, BIOLCHEM 415, or CHEM 351

Advanced Laboratory

- Lab 1: Choose from: MCDB 429 or EEB 447 (or EEB 401 "Environmental Microbiology" section if elected prior to Spring 2020)
- Lab 2: Choose from: 3 credits of Independent research (MCDB 400, EEB 400, INTMED 400, MICRBIOL 399, or EPID 399); MCDB 306; EPID 504; EPID 545; BIOLCHEM 416; or (MCDB 429 or EEB 447 (or EEB 401 "Environmental Microbiology" section if elected prior to Spring 2020) if not used above

Elective Requirement:

- **Group 1: Specified Electives** (*A minimum of 4 course for at least 12 credits*):
 - EARTH 413; EEB / ENVIRON 315 (*only if elected FA21 or later*), EEB 416, (447 or 401 "Environmental Microbiology" section ONLY, if not used to fulfill advanced lab *and only if elected prior to Spring 2020*), 446, 468; EPID 460; MCDB 408, 409, 415, 416, 436*, 464, 472, 489; MICRBIOL 405, 409, 415, 430, 440*, 460; INTMED 409, 460.
**Only one of MCDB 436 and MICRBIOL 440 will count toward the major.*
- **Group 2: Additional Electives** (*Select additional courses from Group 1 above or the list below to bring the total credits in the major to a minimum of 31 credits*):
 - Choose from: BIOLCHEM 416; BIOLOGY 225, 272; CHEM 230, 452; EARTH 313; EEB 313, (390, 391, or 392), 400, 401, 447, 476, (482 or 483); EPID 399, 504*, 505, 507, 525, 543, 545*; IHS 340 (*only if elected FA19 or later*); INTMED 406; any MATH course with MATH 116 as a prerequisite; MCDB 306, 400, 401, 427, 428, 429*, 411; MICROBIOL 399, 450 (*only if elected WN20 or later*); any STATS course at the 400-level or above not being used for Quantitative Analysis Prerequisite
**if not used to fulfill the Advanced Lab credit*

Constraints

- Prerequisites, introductory science courses, and non-specific (departmental) transfer courses are EXCLUDED from the 31 cr. required for the major.
- A maximum of three credits of independent research (EEB 400, MCDB 400, EPID 399, MICRBIOL 399, INTMED 400) may be counted toward the major.
- Only one of MCDB 436 and MICRBIOL 440 will count toward the major.

Distribution Policy

No course used to fulfill a major requirement may be used toward the **LSA Distribution Requirement**. In addition, courses in the BIOLOGY, EEB, MCDB, and MICRBIOL subject areas may not be used toward the Distribution Requirement.

Honors

The Program in Biology administers an Honors Program to train students to conduct independent research in the biological sciences. Participating in the honors program allows students to develop their research skills, deepen their understanding of the field, and form productive relationships with faculty and other students. The achievement is noted on the diploma and official transcript.

In addition to completing all the requirements for the major, an honors degree requires:

1. An overall **and** major GPA of at least 3.4, and
2. the completion of a significant piece of independent research that is
 - a. reported in an honors thesis and
 - b. presented in a public forum.

For more information, consult the Program in **Biology Honors Program Information page** or a Program in Biology advisor.

Middle East Studies Major

The major in Middle East Studies offers both a curriculum exclusively focused on language study taught in the target language and a curriculum exclusively focused on cultural studies taught in English. This structure ensures that students form a linguistic and cultural foundation while also encountering higher-level concepts and theories. It allows students the flexibility to create a program that accommodates their personal interests as well as academic needs.

Submajors:

- Ancient Middle East Studies
- Arabic Studies
- Armenian Studies
- Hebrew Studies
- Persian Studies
- Turkish Studies

Disciplinary Requirement

- Cultural Studies
- History
- Linguistics
- Literature
- Religion
- Visual Culture
- Other

Effective Fall 2020

Exclusions:

Students who elect a Middle East Studies major may not also elect a major in Middle Eastern and North African Studies. Students can pursue both a Judaic Studies and a Middle East Studies major as long as the student does not elect to pursue both a Middle East Studies Hebrew submajor and a Judaic Studies Hebrew sub plan. Students pursuing a Middle East Studies Hebrew submajor or Judaic Studies Hebrew subplan cannot use the Hebrew credits used to fulfill the Hebrew submajor/subplan to also fulfill requirements for the Judaic Studies or Middle East Studies major. Students can both major and minor in Middle East Studies if the two programs have different focuses and/or different languages are used toward each.

Advising

Students interested in declaring a Middle East Studies major or minor should plan to meet with an advisor before doing so to create a comprehensive and cohesive plan of study. Appointments are scheduled through an online calendar available on the department website.

Grade Policies

No course will count toward the major unless the student receives a grade of C- or better.

Prerequisites

- MIDEAST 200: Introduction to the Middle East.
- Two terms or proven first-year proficiency (placement test and/or successful completion of first-year coursework) in a language appropriate to the student's chosen submajor.

Requirements

Minimum Credits: 26

The major in Middle East Studies requires a minimum of 26 credits at the 200-level or above, with at least two courses (in the disciplinary and elective courses) at the 400-level or above. Students must choose both a submajor and a discipline, and complete the MES Major Language Requirement with a submajor-appropriate selection.

Submajor Requirement: Students must declare one submajor: Ancient Middle East Studies, Arabic Studies, Armenian Studies, Hebrew Studies, Persian Studies, or Turkish Studies.

Disciplinary Requirement: At least three courses (and a minimum 10 credits), focused on a single discipline. At least two courses must be from the Department of Middle East Studies. Disciplinary courses can be chosen from a pre-approved list or, by exception, chosen in consultation with, and approved by, an MES department advisor.

Middle East Studies Language Requirement for the Major: At least two additional terms in the language appropriate to the submajor (A minimum of 6 credits).

Four terms or fourth-term proficiency appropriate to the selected submajor. Some of the submajors require fourth-term proficiency in a single language. Students are strongly encouraged to continue their language training beyond the four terms required. This is particularly important for students contemplating graduate studies. Students may test out of the Language Requirement for the MES Major by placement test, but will be required to make up the credits toward the major by taking additional coursework in either the Disciplinary or Elective Requirements.

Select one of the following language choices that matches the submajor:

- *Arabic, Armenian, Persian, or Turkish Studies:* Two additional terms in the selected language.
- *Hebrew Studies:* Three additional terms of language. Students pursuing the Hebrew Studies submajor must take an additional term of Hebrew language instruction at the 300-level or above to complete the Language Requirement. Students also must include two upper division courses which are taught in Hebrew or require the reading of Hebrew texts in the Elective or Disciplinary requirements.
- *Ancient Middle East Studies:* Two additional terms of language beyond the prerequisite.

Students pursuing the Ancient Middle East Studies submajor may take two semesters of the same ancient language or of a different language (or one semester each of two languages) from that taken for the prerequisite to satisfy the MES Major Language Requirement for a total of four semesters of language. Students may use up to three ancient languages toward the major (including the prerequisites), chosen from the following Ancient Languages: Akkadian, Aramaic, Coptic, Sumerian, Classical Hebrew, Classical Greek, Hittite, Middle Egyptian, Syriac, or Ugaritic.)

Electives: At least three courses (and a minimum 10 credits), chosen from the disciplines not selected for the disciplinary requirement. At least two courses must be from the Department of Middle East Studies. These courses may be in a single discipline or cross-disciplinary. Electives can be chosen from a pre-approved list or, by exception, chosen in consultation with, and approved by, an MES department advisor. Language classes can be counted as electives, with the following restrictions: No more than one elective may be a 300-level or above language course appropriate to the selected sub-major. No more than one elective may be a 200-level or above language course in a second Middle East Studies language.

At least one course within either the Discipline or the Elective Requirement must be from the pre-modern period and at least one course within either the Discipline or the Elective Requirement must be modern.

Constraints

- No more than 8 credits may be elected as Independent Study.
- No more than one course elected outside the department of Middle East Studies can be applied toward the Disciplinary Requirement.
- No more than one course elected outside the department of Middle East Studies can be applied toward the Elective Requirement.

Residency

A minimum of 14 of the required 26 credits for the major must be taken at the U-M Ann Arbor campus.

Distribution Policy

No course used to fulfill a major requirement may be used toward the **LSA Distribution Requirement**. In addition, courses in the ARABIC, ARMENIAN, HEBREW, MIDEAST, NEAREAST, MELANG, NESLANG, PERSIAN, and TURKISH subject areas may not be used toward the Distribution Requirement.

Honors

The Honors subplan is open to all students who maintain a cumulative grade point average of at least 3.4 and at least 3.5 in the courses elected as part of the major. Students must complete all regular requirements for the major as well as demonstrate the ability to do original work by writing an Honors thesis.

Applications for Honors are due to the department by the last day of class of the student's junior year. Students may discuss the application process at any time before then with an MES department advisor. Once approved, students enroll in a two-semester, variable credit sequence of independent study coursework to finish the Honors thesis. A recommendation for the designation of "Honors," "High Honors," "Highest Honors," or "No Honors" in Middle East Studies is determined on the successful completion of this coursework and on the quality of the student's Honors thesis.

Further information concerning the Honors subplan can be obtained at the departmental office or the Honors Program Office (1330 Mason Hall).

Middle East Studies Minor

The minor in Middle East Studies provides students with the opportunity of gaining fundamental knowledge of Middle East civilizations, through courses focused on either an area (e.g. Arabic Studies, Armenian Studies, Biblical Studies, Egyptology, Hebrew and Judaic Studies, Iranian Studies, Islamic Studies, Mesopotamian Studies, or Turkish Studies) or a discipline (e.g. Middle East literature, visual culture, history, religion, etc.) taught within the Department of Middle East Studies. Students have the option of using intermediate-level and above language courses towards program requirements.

Effective Fall 2020

Exclusions:

Students can both major and minor in Middle East Studies if different languages and/or disciplines are used toward each.

Advising

Students interested in declaring a Middle East Studies major or minor should plan to meet with an advisor before doing so to create a comprehensive and cohesive plan of study. Appointments are scheduled through an online calendar available on the **department website**.

Grade Policies

No course will count towards the minor unless the student receives a grade of C- or better.

Prerequisites

MIDEAST 200: Introduction to the Middle East

Requirements

Minimum Credits: 16

At least 16 credits of courses chosen as follows:

1. At least three courses in Middle East Studies (MIDEAST) offered through the Department of Middle East Studies focused either:

A) Within one area (e.g. Arabic Studies, Armenian Studies, Biblical Studies, Egyptology, Hebrew and Judaic Studies, Iranian Studies, Islamic Studies, Mesopotamian Studies, or Turkish Studies); or

B) Around disciplines or lines of inquiry not necessarily defined by area (e.g. Middle East literature, visual culture, history, religion, etc.).

2. Students may count up to two semesters of either:

A) A modern Middle East language (e.g. Arabic, Armenian, Hebrew, Persian, Turkish) at the fourth semester or above; or

B) An ancient Middle East language (e.g. Aramaic, Classical Hebrew, Middle Egyptian, Coptic, Hittite, Akkadian, Sumerian, Syriac) at the second semester or above.

3. At least two of the MIDEAST courses must be at the 300-level or above.

Because of the great variety of areas of study possible in the program, and the diversity of the

department's curriculum, there is no pre-set sequence of courses required. Each student determines their focus in consultation with a department advisor at the beginning of the program. Recommended courses to complete the minor will be discussed and determined at that time. Throughout their study, students should plan to meet regularly with an advisor and to consult provided course lists for their chosen area of focus so that a cohesive plan of study may be pursued.

Residency

At least 9-credits must be elected at the University of Michigan-Ann Arbor.

Middle Eastern and North African Studies Major

The Center for Middle Eastern and North African Studies offers a multidisciplinary area major program to students who want to obtain a broad background on the modern Middle East and North Africa.

Effective Fall 2016

Exclusions:

Not open to those who elect a major in Near Eastern Studies.

Advising

Undergraduate Advisors at the International Institute are available to meet with undeclared students who would like to learn more about the program, and also with current majors and minors who would like to discuss course selection, degree requirements, major/minor releases, and other matters of concern. Appointments can be made through our online appointment calendar by clicking on: **meet with an advisor**. Information on all of our undergraduate programs and Walk-In Advising hours can also be found on our website: **here**. The International Institute's Undergraduate Advising Office is currently located at 1080 South University Avenue, Suite 2660.

Prerequisites

One of the following first-year language sequences or the equivalent:

- ARABIC 101 and 102
- ARMENIAN 101 and 102
- HEBREW 101 and 102
- PERSIAN 101 and 102
- TURKISH 101 and 102

Strongly recommended:

- NEAREAST 200 (Introduction to the Middle East)
- AAPTIS 204 (Introduction to Islam)

Requirements

Minimum Credits: 30

A minimum of 30 credits at the 200-level and above, chosen in consultation with and approved by the undergraduate department advisor. The courses chosen must include:

1. Core Courses

- MENAS 493
- One 300 or 400-level, advisor approved, course in Anthropology, Sociology, or Women's Studies
- HISTORY 443 and one additional 300 or 400-level, advisor approved, course in pre-1800 Middle East history
- Political Science, any one of the following: POLSCI 351, 352, 353.

2. MENAS Language Requirement for the Major. One year of the following languages beyond the first year: Arabic, Armenian, Hebrew, Persian, or Turkish.

3. Electives. Two approved electives, selected in consultation with the advisor, with appropriate Middle East content.

Distribution Policy

No course used to fulfill a major requirement may be used toward the **LSA Distribution Requirement**. In addition, courses in the MENAS subject area may not be used toward the Distribution Requirement.

Honors

Special arrangements are made for qualified students to elect an Honors major. Candidates for an Honors major undertake independent research which is reported in a senior Honors thesis. Prospective Honors majors should consult with the Honors department advisor before the end of the junior year and should enroll in one of the senior Honors thesis courses approved by the advisor.

Modern European Studies Minor

The minor in Modern European Studies is open to students with any kind of academic background who wish to better understand European societies from a variety of disciplinary perspectives. After gaining a solid knowledge of European history, students can branch out in many directions: they can further explore historical processes, delve into economic problems, investigate social relations, or examine Europe's cultural achievements and conflicts, among other possibilities. The minor encourages a broad understanding of Europe, both geographically and thematically. With the European Union now extending from Portugal to the Russian borderlands, and with global processes reconfiguring Europe's relationships with the rest of the world, the minor offers a unique opportunity for students to familiarize themselves with an enormously diverse continent that is constantly re-examining its roots and discussing its future.

Effective Fall 2010

Advising

Undergraduate advisors at the International Institute are available to meet with undeclared students who would like to learn more about the program, and also with current majors and minors who would like to discuss course selection, degree requirements, major/minor releases, and other matters of concern. Appointments can be made through our online appointment

calendar by clicking on: **meet with an advisor**. Information on all of our undergraduate programs and Walk-In Advising hours can also be found on our website: **here**. The International Institute's Undergraduate Advising Office is currently located at 1080 South University Avenue, Suite 2660.

Prerequisites

Fourth-term proficiency in a language of the European Union (other than English) or other European language by permission of the advisor.

Requirements

Minimum Credits: 15

At least two courses must be upper-level (300 or above).

1. **Modern European history** : HISTORY 318 or 319.
2. **Elective courses**: Three courses chosen in consultation with, and approved by, the CES academic advisor, from one of the following tracks:
 - A. ***Politics, Economy, and Society of Europe and the EU***
 - One upper-level course on modern European or EU politics, society, or economics.
 - Two additional social science courses on modern Europe.
 - B. ***European Arts and Culture***
 - One upper-level course on art, literature, or culture of modern Europe
 - Two additional humanities courses on modern Europe
3. **Capstone**: A fourth elective course (3 credits), chosen at the discretion of the student and the advisor and taken during the final two academic terms of study, that offers an opportunity to synthesize what the student has learned about modern Europe. It should involve researching and writing a paper of at least 12 pages in length. Possible themes include EU expansion, colonialism/post-colonialism, economic development, migration and immigration, European identity, and European literary traditions.

Courses must be distributed over at least three of the following fields: anthropology, economics, history, history of art, literature, music, philosophy, political science, screen arts and cultures, and sociology

Constraints

Students may not use more than one course to meet the requirements of both a plan for the major and a minor.

No course may be used to satisfy the requirements of more than one minor.

Modern Middle Eastern and North African Studies Minor

The Center for Middle Eastern and North African Studies offers an interdisciplinary minor to students who wish to gain insight into the political, economic, and social issues affecting the Middle East and North African, and who wish to achieve an understanding of the region's history and culture. Emphasis in this minor is on the modern Middle East and North Africa.

Effective Fall 2006

Exclusions:

A minor in Modern Middle Eastern and North African Studies is not open to students with a major in Middle Eastern and North African Studies or a major or minor in the Department of Middle East Studies .

Advising

Undergraduate advisors at the International Institute are available to meet with undeclared students who would like to learn more about the program, and also with current majors and minors who would like to discuss course selection, degree requirements, major/minor releases, and other matters of concern. Appointments can be made through our online appointment calendar by clicking on: **meet with an advisor**. Information on all of our undergraduate programs and Walk-In Advising hours can also be found on our website: **here**. The International Institute's Undergraduate Advising Office is currently located at 1080 South University Avenue, Suite 2660.

Prerequisites

MIDEAST 200 : Introduction to the Middle East

Requirements

Minimum Credits: 15

At least 15 credits of courses, chosen in consultation with and approved by advisor:

1. A 400-level history course
2. A 400-level social science course in either Anthropology, Political Science, or Sociology
3. MENAS 493

Courses must be distributed over three of the following disciplines: 3rd year of middle eastern language, anthropology, history, history of art, middle eastern literature, political science, religion, sociology or women's studies.

Constraints

Elementary and intermediate-level language courses in Middle East Studies may not count toward the minor.

Residency

At least one half of the courses counting toward the minor must be taken at the UM-Ann Arbor campus.

Molecular, Cellular, and Developmental Biology Major

The curriculum in Molecular, Cellular, and Developmental Biology offers students an integrated program of study and training in the biological and physical sciences. It is a pathway to graduate study in areas of biology and medicine that emphasizes a quantitative and analytical approach to

the life sciences.

Effective Fall 2020

Exclusions:

Students who elect a major in Molecular, Cellular, and Developmental Biology may not elect the following majors: Biology; Biology, Health, and Society (formerly known as General Biology); Cellular and Molecular Biomedical Science (formerly known as CMB:BME); Microbiology; Plant Biology; Biochemistry; Biomolecular Science; or Neuroscience. They may also not elect a minor in Biology; Plant Biology; Chemistry; or Biochemistry.

Advising

Students interested in any major in the biological sciences are encouraged to meet with an advisor to discuss their academic plans as soon as possible! Students need not have completed all of the major prerequisites to declare, but should have completed the introductory biology sequence with a 2.0 or better and be in good academic standing. To make an appointment, go to the Program in Biology website at <http://www.lsa.umich.edu/biology/>.

Grade Policies

Total Credits and GPA Requirement for Molecular, Cellular, and Developmental Biology:

Minimum 31 cr. in Major

Minimum 2.0 GPA in Major

GPA is calculated from all mandatory prerequisites, all courses used for major requirements (including cognates), and all courses in BIOLOGY, EEB, and MCDB.

The introductory biology sequence must be taken for a grade. Prerequisites other than introductory biology may be taken pass/fail; however, it is not recommended, especially for chemistry. Remember that at least a C- must be earned to pass a course taken pass/fail.

Courses used for the major may not be taken pass/fail.

Prerequisites

Introductory Biology Sequence:

Choose Sequence A, B, or C:

A. BIOLOGY 171, BIOLOGY 172 or 174, & BIOLOGY 173; or

B. BIOLOGY 195 (AP/IB) & BIOLOGY 173; or

C. BIOLOGY 191 (transfer credit), BIOLOGY 192, & BIOLOGY 173

Chemistry Sequence:

- CHEM 210 & 211; and
- CHEM 215 & 216

Quantitative Analysis Sequence:

Choose four courses from the following:

- Calculus I: MATH 115, 120 (AP), 175, 185, or 295
- Calculus II: MATH 116, 121 (AP), 156, 176, 186, or 296
- Physics I: PHYSICS 125, 135, 139 (AP), 140, 150 (*only if elected F21 or later*) or 160
- Physics II: PHYSICS 126, 235, 239 (AP), 240, 250 (*only if elected F21 or later*) or 260
- Computer Programming: EECS 183, 203, and/or 280

- Statistics: [STATS 180 (AP), 206 (*only if elected F20 or later*), 250, or 280]; and/or STATS 400-level or above (min. 3 credits)
- BIOLOGY 202
- BIOPHYS/PHYSICS 290

[Note: Any course used to fulfill this requirement cannot also be used as a major elective; i.e., a course cannot "double-count."]

Requirements

Minimum Credits: 31

Core Courses:

- Fundamentals of Cell Biology (BIOLOGY 272) or Developmental Biology (BIOLOGY 205)
- Genetics: BIOLOGY 305
- Biochemistry: Choose from: MCDB 310, BIOLCHEM 415, or CHEM 351
- Cellular or Molecular Biology: Choose one from: MCDB 427 or MCDB 428

Electives:

Group I - Advanced MCDB Laboratory Courses:

- Choose two courses from: MCDB 306, 400 (3 cr. min./max.), 423, 424, 429

Group II - Advanced MCDB Courses:

- Choose two courses from: MCDB 401, 402, 403, 404, 405, 406, 408, 409, 410, 411, 415, 416, 417, 418, 420, 421, 422, 425, 426, 427 (if not used for core), 428 (if not used for core), 430, 433, 434, 435, 436, 440, 441, 444, 447, 448, 450, 451, 452, 453, 454, 455, 456, 457, 458, 459, 462, 463, 464 (*only if elected FA20 or later*), 465 (*only if elected FA20 or later*), 469, 471, 472 (*only if elected FA20 or later*), 489, 589, or an additional course from Group I

Group III - Biology & Chemistry Electives:

- Choose course(s) from the following list to reach 31 credits in major:
 1. Additional courses from Group I or II (above)
 2. Any specific BIOLOGY, EEB, or MCDB course at the 200-, 300-, or 400-level not used to fulfill another requirement (except BIOLOGY 200, 201, 215, 241, 299; or EEB 300, 301, 302; or MCDB 300, 301, 302, 320, 360, 412, 460, or 461)
 3. Chemistry 230 or 260

Constraints

- A maximum of three credits of independent research (MCDB 400) may be counted toward the major. Three credits must be completed in one term to meet the Advanced Laboratory requirement or the Advanced MCDB Course requirement.
- Prerequisites, introductory science courses, and non-specific (departmental) transfer courses are EXCLUDED from the 31 cr. required for the major.

Distribution Policy

No course used to fulfill a major requirement may be used toward the **LSA Distribution Requirement**. In addition, courses in the BIOLOGY, EEB, MCDB, and MICRBIOL subject areas may not be used toward the Distribution Requirement.

Honors

The Program in Biology administers an Honors Program to train students to conduct independent research in the biological sciences. Participating in the honors program allows students to develop

their research skills, deepen their understanding of the field, and form productive relationships with faculty and other students. The achievement is noted on the diploma and official transcript. In addition to completing all the requirements for the major, an honors degree requires:

1. an overall **and** major GPA of at least 3.4,
2. complete the thesis program application via the Program in Biology web page,
3. participation in at least two terms of independent research, and,
4. the completion of a significant piece of independent research that is
 - reported in an honors thesis and
 - presented in a public forum.

Note that undergraduate research students typically register for an independent research course (as appropriate for their major) during each term of research. Formal course registration is encouraged, but not required. For more information, consult the **Program in Biology Honors Program Information page** or a Program in Biology advisor.

Moral and Political Philosophy Minor

The Philosophy Academic Minors are designed to provide students with an education in philosophy that will complement a major in some other discipline and that will, among other things, illuminate philosophical issues that arise in that other discipline.

The Philosophy minor aims to provide students basic philosophical skills and training, exposure to rigorous core courses, and some advanced work, but does not aim for the breadth and comprehensiveness of the major or for depth in any particular area.

The Moral and Political Philosophy minor aims to give students a basic foundation in general philosophy, core systematic training in either moral or political philosophy, along with broad study across a range of areas in moral and political philosophy and intensive advanced-level work. It should appeal to students who want to study moral and political philosophy in conjunction with other majors, for example, Political Science, Sociology, and Economics, or want to study the subject for pre-professional reasons (e.g., because they are interested in ethical issues concerning medicine or the law).

Effective Winter 2022

Exclusions:

A minor in Philosophy is not open to students with a major in Philosophy.

Advising

Students wishing to pursue a minor in Philosophy must develop a specific plan for its completion in consultation with the department's designated advisor. Appointments are scheduled through the on-line scheduling system available on the department's web page: www.lsa.umich.edu/philosophy/undergraduate/advisorappointments

Grade Policies

No course will count toward the minor unless the student receives a grade of C- or better. This includes all courses including prerequisites, required courses, and electives.

Prerequisites

None

Requirements

Minimum Credits: 15

COMMON REQUIREMENTS FOR ALL PHILOSOPHY ACADEMIC MINORS:

1. Any 100- or 200-level course other than PHIL 180, 183 (if elected after FA20), 201, 296 (logic courses).
2. **At least one course at the 400-level**, other than formal methods (PHIL 413, 414)
3. **A minimum of 15 credits of Philosophy**, at least 9 of which (including the required 400-level course) must be taken in residence.
4. No course will count toward the minor unless the student receives a grade of C- or better.

SPECIFIC REQUIREMENTS FOR Moral and Political Philosophy:

- i. One of PHIL 361 or 366 or 367 or PPE 300
- ii. Three additional courses from: PHIL 353 (W18), 355, 356, 359, 361, 366, 367 (W18), 369, 384 (W18), 385, 429, 430, 431, 433, 441 (F18), 442, 443, 444 (W18), 446 (W18), 485 (one of which must be at the 400-level), PPE 300 (W18)

Residency

At least nine credits, including the required 400-level course, must be taken in residence.

Minor in Multidisciplinary Design

The Multidisciplinary Design Program offers students a wide variety of long-term, team-based engaged learning opportunities to bridge the gap between the classroom and professional experience. Students are invited to apply for a faculty research or externally-sponsored project team, or curricularize through significant involvement on a design-based student project team.

To earn the Minor in Multidisciplinary Design, students complete a set of four core experiences rather than a prescribed list of classes, including: an introductory design course, a multi-term design project, a topical complementary course and a final leadership/mentorship course. There are many options available to satisfy these requirements, and course selections are tailored to students' interests and degree plan.

There is one optional specialization within the Minor in Multidisciplinary Design: Global Health Design.

The Multidisciplinary Design Minor sets you apart from other students and demonstrates your deep understanding of design in a real-life context. This minor incorporates practical teamwork skills with classroom learning, culminating in an intensive, hands-on, multi-term design project. The courses to complete the MD minor are highly individualized, and customized to support you as you develop your skills on a project that you care about.

The Multidisciplinary Design Minor is currently available to students in Engineering; Architecture; Art & Design; Business; Education; Information; Kinesiology; Literature, Science and the Arts; Music, Theatre & Dance; and Pharmacy.

Minor Requirements

The Multidisciplinary Design Minor requires 15 credit hours across 4 key experiences. This program is **highly individualized**. The courses below represent common enrollments for MDP students.

- **Intro Design, Build Test Experience** (2 – 4 credits)
 - The following courses have most commonly been used to fulfill the DBT (Design, Build, Test) Experience: ENGR 100 (DBT sections only); ENGR 255; BME 350; EECS 183; ME 250; ARTDES 120 or 130
 - *The DBT requirement can also be fulfilled through an additional semester on your multi-term project team.*
 - Other approved courses on an individual basis.
- **Multi-Term Design Project** (minimum of 7+ credits)
 - This is the foundation of the minor in Multidisciplinary Design
 - Connect with a project through student to organizations; apply for corporate sponsored projects and FRST research labs at the MDP Project Opportunity Fair in October
 - Earned at 300-level or higher across 2 or more terms to count toward the MDP minor
 - Most common curricularization option: ENGR 355/455
 - Other approved courses or projects on an individual basis
- **Connections Course** (3 – 4 credits)
 - Broadens your knowledge and your work on the Multi-Term Design Project
 - Courses outside of your major (or, better yet, outside your college!) highly encouraged (core courses in your major are not eligible)
 - Students have earned Connections Course credit through classes in LSA, SI, Ross, and more!
- **Mentorship/Leadership Course** (2 credits)
 - Enrollment through ENGR 456 only
 - Complete simultaneous design team mentoring experience

Eligibility

- All Engineering undergraduate students are eligible for the MDP minor.
- Others include Art & Design, LSA, Public Health, ROSS, SI, SMTD, and more
- Current or previous earned academic credit on a Multi-Team Design Project

Declare the Minor in Multidisciplinary Design

- Be in good academic standing based on earned U-M GPA (minimum 2.0).
- First-year students should wait until their second semester/after declaring a major.
- Transfer students are eligible to declare during their first semester at U-M
- Ready to declare the Minor in Multidisciplinary Design?
 - Schedule an appointment with the MDP Academic Advisor [here](#).

Museum Studies Minor

The primary goal of the minor in museum studies is to teach students how museums work, both in historical and contemporary contexts. Doing so involves learning to critically engage the historical, social, cultural, artistic and scientific dimensions of heritage, both tangible and intangible, within the museum. The museum studies minor seeks to foster "museum literacy" by introducing students to the processes by which meaning is inscribed upon objects within the context of museums and to the roles museums, broadly defined, play in society. Institutions, objects and collections, and society thus form the curriculum's conceptual foci.

Objects and Collections — The artifact, collections of artifacts maintained by museums, and the information associated with them:

the nature of objects; learning from objects; disciplinary perspectives on the object; the role of museum artifacts in research; conservation; connoisseurship; collectors and collecting; tangible and intangible culture; how objects acquire their meaning; the real vs. the represented; exhibit design (how museums choose to display objects)

Institutions — The wide variety of organizations that collect and display artifacts for education, research, or entertainment:

the history of museums; administration, governance, and ethics; non-profit and for profit models of museums; national vs. local museums; museums in their various forms (i.e., science centers, zoos, botanical gardens, history centers, art museums, themed experiences); the relationship of museums to libraries and archives ; rationalizing the museum within society; museum design and architecture; assessment; technology in museums; organization of and access to museum information; professional associations at the state, national and international levels

Society — The audiences that museums engage, individually or collectively, and the communities whose cultures are represented in museum displays:

the role of museums in society; the representation of ethnicity, gender, race, and culture in museums; the role of museums in nation building; public culture; repatriation and debates over the ownership of cultural properties and cultural heritage; visitor studies; learning in museums; defining the museum experience; audience and visual perception studies

Investigations into the interrelationships that exist between these three foci will add to the wealth of material addressed in the curriculum. Indeed, some of the most interesting issues exist at the intersections of these foci.

Students will derive multiple secondary benefits from this course of study - new content knowledge, an enhanced ability to conduct research in one's academic discipline, a new means by which to understand other cultures and societies, a heightened awareness of the points of view afforded through multidisciplinary study and understanding the relationship of how one's discipline relates to other disciplines, an increased capacity for critical thinking and observation, and the personal empowerment derived from becoming more informed users of cultural assets, especially those available at the University of Michigan.

Despite being situated in the College of LSA, the undergraduate minor has been designed to accommodate majors from other schools and colleges at the university. While it has been broadly conceived, the museum studies minor will hold special appeal to students concentrating in Anthropology, Classical Archaeology, History, History of Art, American Culture, and

Communication and Media Studies, where students are first introduced to these topics.

Effective Fall 2009

Advising

Advising responsibilities are divided between the Museum Studies Program Student Services Specialist and Museum Studies faculty, specifically the Director and Associate Director. General questions regarding curriculum requirements will be handled by the Student Services Specialist. The Specialist will also serve as the coordinator for the practicum requirement (MUSEUMS 409). The Director and Associate Director advise students on issues concerning elective course selection, graduate study, and career planning.

Prerequisites

None for the minor *per se*, although individual courses elected to meet the requirements of the minor may have course prerequisites.

Students will be eligible to declare their desire to pursue the Museum Studies minor upon completion of MUSEUMS 301 (sophomore standing).

Requirements

Minimum Credits: 18

1. **Core Courses:** MUSEUMS 301 and 401.
MUSEUMS 301 and MUSEUMS 401 provide a theoretical/historical overview of museums as examined through the constructs of institutions, objects and collections, and society as well as an examination of the critical issues confronting museums in the contemporary world.
2. **Museum-Based Practicum:** MUSEUMS 409 (Practicum in Museums) will be available to students who have declared the minor in Museum Studies. MUSEUMS 409 establishes a critical bridge between theory and practice and - through the use of mentoring, class discussion, and engagement with the principles of reflective practice -- will assure that students draw the most from this experiential requirement. Based on the premise that theoretical grounding is necessary for a successful practicum experience, students will not be allowed to seek MUSEUMS 409 credit for museum-based practical experiences undertaken before completing MUSEUMS 301. Students interested in acquiring additional museum experience may repeat MUSEUMS 409 for a total of six credits. In such instances the second three credits may replace one of the required three elective courses.
3. **Electives:** Three elective courses chosen in consultation with, and approved by, the museum studies faculty advisor. These courses are selected from designated 300- and 400-level courses in the three thematic areas (institutions, objects and collections, and society) of the program. Students must elect one course from at least two of the three areas.
 - A. Institutions
 - B. Objects & Collections
 - C. Society

A complete list of current electives can be found on the **Museum Studies website**.

The electives offer students the opportunity to take courses to further their knowledge of institutions, objects and collections, and society in many departments in the university. Those

students selecting courses not directly focused on the museum will have the opportunity to make critical ties back to the field through the completion of mentored writing assignments. To receive elective credit for a course that is not explicitly museum-focused, upon receiving prior approval a student will be required to write a brief (5-page) rationale paper that addresses the relationship between the content of the course and issues considered in the two museum studies core courses, MUSEUMS 301 and 401. The academic staff of the Museum Studies Program will evaluate these papers.

Music Minor

The Music Minor offers students the opportunity to explore music to enrich their studies and receive formal recognition on their diploma. The minor also makes music studies more accessible to students with already demanding majors, such as engineering. Students who have played with an ensemble regularly will likely only need 2 or 3 additional classes to complete the minor. An academic minor in music is developed in consultation with an undergraduate advisor in music. Students interested in the Minor in Music should contact Tom Erickson (tericks@umich.edu; 734-764-8623), Becky Olsen (beckyo@umich.edu; 734-763-9283), or Deedee Ulintz (dianals@umich.edu; 734-764-0592) for more information about the minor or to schedule an advising appointment.

Effective Winter 2020

Exclusions:

A minor in Music is not open to students with a major in Music, including those in the University of Michigan School of Music, Theatre & Dance.

Advising

Students can contact Tom Erickson (tericks@umich.edu; 734-764-8623), Deedee Ulintz (dianals@umich.edu; 734-764-0592), or Becky Olsen (beckyo@umich.edu; 734-763-9283) via email or telephone to schedule advising appointments.

Prerequisites

None, but ability to read music and instrumental or vocal performance experience is recommended.

Requirements

Minimum Credits: 15

15 credits *of music courses* must be taken to fulfill the minor requirements.

One introductory course in MUSICOL or THEORY chosen from:

- MUSICOL 121: Introduction to the Art of Music
- MUSICOL 122: Introduction to World Music
- MUSICOL 123: Introduction to Popular Music
- MUSICOL 130: Opera!
- MUSICOL 345: History of Music - Middle Ages to Baroque

- MUSICOL 346: History of Music - Baroque to modern era
- THEORY 137: Introduction to the Theory of Music
- THEORY 238: Introduction to Musical Analysis

Minimum four additional electives in music, at least two of which must be at the 300-level or above. Elective selections must include one or more courses in two of the following five areas: COMP, MUSICOL, THEORY, PAT, or performance.

- COMP 221: Introduction to Elementary Composition
- COMP 222: Composition
- COMP 233: Special Topics in Composition
- COMP 415: Introduction to Electronic Music
- COMP 416: Seminar in Electronic Music
- MUSICOL 121: Introduction to the Art of Music
- MUSICOL 122: Introduction to World Music
- MUSICOL 123: Introduction to Popular Music
- MUSICOL 130: Opera!
- MUSICOL 343: Music and Islam
- MUSICOL 345: History of Music - Middle Ages to Baroque
- MUSICOL 346: History of Music - Baroque to Modern Era
- PAT 200: Introduction to Electronic Music
- PAT 204: Creative Coding for Music
- PAT 305 / MUSPERF 300: Video Game Music
- PAT 313: The Art of Electronic Music
- PAT 314: Electronic Music & Social Justice
- PAT 472 / ARTSADMN 472: Business of Music
- THEORY 137: Introduction to the Theory of Music
- THEORY 238: Introduction to Musical Analysis

Performance courses may include private instruction*, applied GUITAR, PIANO, or VOICE, or ENS**:

- BASSOON 150
- CARILLON 150
- CELLO 150
- CLARINET 150
- DBLBASS 150
- ENS 344: Campus Philharmonia & Symphony Orchestra
- ENS 346: University & Campus Bands
- ENS 348: Marching Band, Basketball & Hockey Bands
- ENS 351: Arts Chorale
- ENS 363: Men's Glee Club
- ENS 356: Women's Glee Club
- ENS 360: Campus Jazz Ensemble
- ENS 405, 406: Beginning Javanese Gamelan
- ENS 407: Javanese Gamelan Ensemble
- EUPHBARI 150
- FLUTE 150
- FRENHORN 150
- GUITAR 111 (class guitar)

- GUITAR 112 (class guitar)
- HARP 150
- HARPSCH 150
- JAZZ 150
- OBOE 150
- ORGAN 150
- PERCUSS 150
- PIANO 110 (class piano)
- PIANO 150
- SAX 150
- TROMBONE 150
- TRUM 150
- TUBA 150
- VIOLA 150
- VIOLIN 150
- VOICE 111 (class voice)
- VOICE 150

**Private lesson availability is limited, and the School of Music, Theatre & Dance does not guarantee placement. Priority is given to School of Music performance majors. Additionally, private lessons on some instruments may not be available in a given term. Please see the Application for Private Instruction page on the SMTD website for more details.*

***Placement in Ensemble courses may require an audition. Please see the Performance Opportunities page on the SMTD website for more details.*

Constraints

AP credits may not be used to satisfy requirements of the minor with one exception. AP Credit in THEORY may qualify, if approved by the LSA Music Advisor, for the introductory course in MUSICOL or THEORY. In this instance, a minimum of 5 other courses, totaling 15 credits, must be elected for the minor.

Any course elected to fulfill the required introductory course in MUSICOL or THEORY cannot also be applied toward satisfying the Electives requirement.

With approval by the LSA Music Advisor, a maximum of two non-SMTD music courses may be used to satisfy appropriate requirements for the LSA Music Minor.*

*Music courses offered by non-SMTD units:

- AAS / RCHUMS / WGS (WGS) / HONORS 354: Race and Identity in Music
- AAS 366: Music of Africa
- AMCULT 209: History of American Popular Music
- AMCULT / HISTORY / LATINOAM 226: The Latin Tinge
- AMCULT 228: American Musical Soundscapes
- AMCULT 337: A Survey of American Blues Music
- AMCULT 407: The History of American Folk Music: Culture, Politics, Music\
- AMCULT 409; American Roots Music
- AMCULT / WGS 411 (WGS 411): Rednecks, Queers, and Country Music
- COMM 455: Music and Mediated Identities
- PSYCH 211: Project Outreach, *section titled "mind, Music, and the Community"*

- PHYSICS 288: The Physics of Music
- RCMUSIC 249 (RCHUMS 249): Foundations of Music
- RCHUMS 251: Topics in Music
- RCHUMS 253: Choral Ensemble: Residential College Singers
- RCHUMS 256: Studying and Playing Southeast Asian Music
- RCHUMS 259: Music Improvisation
- RCMUSIC 320 (RCHUMS 250): Chamber Music
- RCMUSIC 334 (RCHUMS 252): Topics in Musical Expression
- RCHUMS 350: Creative Musicianship
- RCHUMS 351: Creative Musicianship Lab
- RCHUMS 352: Found Instruments: Building, Design, and Performance
- RCHUMS 356: The Symphonic Century: Music and Revolution in the 19th Century
- RCMUSIC 353 (RCHUMS 258): Afro-Cuban Drumming and Styles
- RCHUMS / ENS 406: Beginning Javanese Gamelan
- RCHUMS / ENS 407: Javanese Gamelan Ensemble
- SOC 255: The Sociology of Music

Other Department Policies

Additional music courses offered by the School of Music, Theatre & Dance are available and with approval by the LSA Music Advisor, may be used to satisfy appropriate requirements of the LSA Music Minor. Enrollment in these courses may be restricted to SMTD students. Interested students should contact the instructors of these courses for permission to enroll.

Additional SMTD music courses open on non-SMTD students:

- ARTSADMN 406: Special Topics
- ARTSADMN 410: Arts Entrepreneurship Forum
- ARTSADMN 422: Writing About Your Art
- ARTSADMN 423: Grants & Fundraising
- ARTSADMN 426: Arts Fundraising
- ARTSADMN 428: Arts Leadership
- ARTSADMN 432: Recording Industry
- ARTSADMN 477: Social Value Arts
- JAZZ 450: Contemplative Practices Seminar
- JAZZ 454.002: Special Topics
- JAZZ 455: Creativity and Consciousness
- MUSED 210: Special Topics
- MUSICOL 343: Music and Islam
- MUSPERF 200: Engaging Performance

Residency

Upon approval of the LSA Music Advisor, up to six credits earned outside of the University of Michigan or its sponsored programs may be used to fulfill requirements for the minor.

Native American Studies Minor

The Native American Studies Program offers undergraduate and graduate courses in the field. Its curriculum includes an undergraduate minor and graduate courses organized around multiple

disciplines in the humanities and social sciences.

The minor in Native American Studies permits students to explore the North American Indian experience in an interdisciplinary manner. The goal of the minor is to assist students in coherently planning a curriculum that will enable them to grapple intelligently and in an informed manner with the history, experience, and contributions of Native Americans in the United States and Canada. Courses in language, literature, the social sciences, and the humanities form the main areas of study, but students may occasionally have an opportunity to explore Native American arts, historic and contemporary.

Students interested in pursuing a minor in NAS should contact the Director of Native American Studies.

Effective Winter 2014

Exclusions:

A minor in Native American Studies is not open to students with any minor in the Department of American Culture.

Advising

Students can set up advising appointments for any of the program's major or minor plans by visiting www.lsa.umich.edu/ac/undergraduate/advising.

Prerequisites

None.

Requirements

Minimum Credits: 15

At least 5 courses totaling 15 credits, at the 200-level or above. At least two courses (6 credits) must be elected at the 300-level or above.

1. **General Surveys:** One course chosen from:
 - AMCULT 216: Introduction to Native American Studies – Social Science
 - NATIVEAM 217 / AMCULT 217: Introduction to Native American Studies – Humanities
 - NATIVEAM 316 / AMCULT 316 / ANTHRCUL 315: Native American Peoples of North America
 - NATIVEAM 367 / AMCULT 367 / HISTORY 367: American Indian History
2. **Electives:** Additional credits in Native American Studies to bring minor total to 15 [Courses from Requirement 1 may not be used to meet Requirement 2]. Electives may be chosen from the following list:
 - AMCULT 262 / RELIGION 262: Introductory Study of Native Religious Traditions
 - AMCULT 372: Hula (F17)
 - AMCULT 301: Topics in American Culture, *section subtitled “Native American Feminism”*
 - AMCULT 310: Topics in Ethnic Studies, *section subtitled “Blacks, Indians, and the Making of America”*
 - AMCULT 333: Green Indigeneities (F17)

- AMCULT 428: Native American Literature
- AMCULT 496: Social Science Approaches to American Culture, *section subtitled “Native American Mental Health”*
- AMCULT 498: Capstone Seminar in American Culture, *sections subtitled “Native American Autobiography,” “African American and Native American Women Writers”*
- ANTHRARC 490: Ancient North America (F17)
- ENGLISH 407: Topics in English Language and Literature, section subtitled “Contemporary Native American Women Writers”
- HISTORY 496: Indians and Empires in North America (F17)
- NATIVEAM 322 / AMCULT 322: Intermediate Ojibwe
- NATIVEAM 323 / AMCULT 323: Intermediate Ojibwe
- NATIVEAM 328 / AMCULT 328 / ENGLISH 382: Native American Literature
- NATIVEAM 422 / AMCULT 422: Advanced Ojibwe
- NATIVEAM 423 / AMCULT 423: Advanced Ojibwe
- NATIVEAM 461 / AMCULT 461 / ANTHRCUL 461 / LING 461: Language, Culture, and Society in Native North America
- RELIGION 262 / AMCULT 262: Introductory Study of Native Religious Traditions
- SPANISH 472: Indigenous Peoples of the Americas (F17)

Other courses, such as courses in other departments and special topics courses not listed above, may be taken with the approval of the Director of Native American Studies. These may include

- “Histories of Native American Women,”
- “19th-Century Native American Literature,”
- “Contemporary Native American Literature,”
- “Contemporary Literature by Native Americans.”

Neuroscience Major

Neuroscience is an Interdepartmental Program administered jointly by the Department of Psychology and the Department of Molecular, Cellular, and Developmental Biology (MCDB).

Neuroscience (B.S.) may be elected as an interdepartmental major, supervised by the *Undergraduate Neuroscience Steering Committee*.

The overall goals of this major are to:

1. provide a course of study in the discipline of Neuroscience that integrates cell/molecular and behavioral components of the field; and
2. provide a course of study that better prepares students for graduate training in the field of Neuroscience than do the current majors in Molecular, Cellular, and Developmental Biology (MCDB); Biology; or Biopsychology, Cognition, and Neuroscience (BCN).

An understanding of how the nervous system functions spans both molecular and cellular activity that is best taught by cell and molecular neurobiologists, and behavior that is best taught by psychologists. The well-trained student will receive instruction that allows her or

him to understand the usefulness of genetics, cellular biology, and behavioral tests in this complex field. This degree will provide the cross-disciplinary training that will provide a head-start into postgraduate studies in Neuroscience.

Effective Winter 2019

Exclusions:

Students who elect a major in Neuroscience may not elect the following majors: Brain, Behavior, and Cognitive Sciences; Biopsychology, Cognition, and Neuroscience; Biomolecular Science; Biology; General Biology; Molecular, Cellular, and Developmental Biology (formerly known as Cell and Molecular Biology, or CMB); Microbiology; Plant Biology; or Biochemistry. They may also not elect a minor in Biology; Plant Biology; Chemistry; or Biochemistry.

Advising

Students considering a neuroscience major are urged to meet with a Neuroscience major advisor during their first or second year at the University. It is not necessary to complete all the prerequisite courses before declaring a Neuroscience major, nor is it necessary to complete all the prerequisite courses before beginning to enroll in upper level courses required of the major

Students choosing Neuroscience as a field of the major develop an approved plan for the major with a department advisor who must approve the original plan for the major and any exceptions to the stated requirements for the major.

Students should also consult a department advisor when planning the final term's elections to ensure that all requirements for the major have been met and to secure an advisor's approval on a *Major Release* form.

To make an advising appointment, go to: <http://lsa.umich.edu/neurosci/undergraduates>

Prerequisites

- BIOLOGY 171 and 172/174 and 173; or BIOLOGY 195 and 173; or BIOLOGY 191 and 192, and 173; and,
- CHEM 210/211 and 215/216; and,
- STATS 250 or STATS 280; and,
- Quantitative Prerequisites – Two courses from the following:
 - Calculus I (MATH 115, 120, 185, or equivalent)
 - Calculus II (MATH 116, 121, 156, 176, 186, or equivalent)
 - Physics I (PHYSICS 125, 135, 140, 150, 160, or equivalent)
 - Physics II (PHYSICS 126, 235, 240, 250, 260, or equivalent)
 - EECS 183 (Elementary Programming Concepts)
 - Any STATS course that has STATS 250 as a prerequisite
 - [With the permission of an advisor, other courses that help students develop quantitative skills can be substituted.]

Requirements

Minimum Credits: 32

Core Requirements:

- Cellular & Molecular Neurosci.: MCDB 322 (previously BIOLOGY 222)
- Introduction to Behavioral Neuroscience: PSYCH 230
- Human/Animal Physiology: BIOLOGY 225
- Genetics: BIOLOGY 305
- Biochemistry: one of MCDB 310, BIOLCHEM 415, or CHEM 351

Group A. Molecular and Cellular Neuroscience Electives. Choose one course from the following:

- MCDB 402, 403, 418, 421, 422, 426, 450, 451 (*only if elected FA19 or later*), 452, 453, 455, 456, 458, 459, 463, 464, 465, or HUMGEN 480

Group B. Behavioral & Cognitive Neuroscience Electives. Choose two courses from the following:

- PSYCH 240, 330, 333, 334, 336, 337, 339, 340, 343, 345, 430, 431, 433, 434, 435, 436, 439, 440, 442, 531
- NEUROL 455
- NEUROSCI 470

Group C. Additional Elective: Choose one additional course from Group A or B (above) or from Group C:

- BIOLOGY 205, 207, 272 (*only if elected FA20 or later*)
- BIOLCHEM 640;
- EEB 492;
- IHS 340;
- MCDB / EEB 397;
- MCDB 401, 405, 411, 417, 420, 427, 428, 435, 436, 440, 441, 448, 454, 462;
- MICRBIOL 440;
- PHRMACOL 310;
- PSYCH 335, PSYCH 338 / ANTHRIBIO 368, 346 (prior to W18), PSYCH 349 / LING 347, PSYCH 363, PSYCH 364, PSYCH 365, PSYCH 414 / WGS 452 (WOMENSTD 452), PSYCH 420 (3 credits only, *only if elected prior to WN21*), PSYCH 439 / ANTHRIBIO 468, PSYCH 441, PSYCH 447, PSYCH 448, PSYCH 461, PSYCH 462, PSYCH 469 / ANTHRIBIO 478, PSYCH 532 / ANATOMY 541 / PHYSIOL 541

Group D. Lab Requirement: Choose at least two courses for a minimum of four credits total:

1. *Method-Based Laboratory courses:* Choose at least one course from: BIOLOGY 226; MCDB 306, 423, 424, 429; PSYCH 302, 331, 342
2. *Research-Based Laboratory Courses:* Choose an additional course from Group D-1 (above) or Group D-2: MCDB 300, 360 (*only if elected FA19 or later*), 400, 460 (*only if elected FA19 or later*); PSYCH 326, 422, 424, 426, 428

Constraints

- Student double majoring in Psychology and Neuroscience or Cognitive Science and Neuroscience may share a maximum of 3 courses toward their two programs.

- Each course must be taken for a minimum of two credits each and be completed in a single academic term.
- Only three credits of independent study may count toward the major.

Other Department Policies

Neuroscience majors may NOT use any BS/NS Psychology or introductory Biology courses toward their College Area Distribution requirement.

Distribution Policy

No course used to fulfill a major requirement may be used toward the **LSA Distribution Requirement**. In addition, courses in the BIOLOGY, EEB, MCDB, subject areas, and BS courses used in PSYCH may not be used toward the Distribution Requirement.

Honors

Effective Winter 2014

The Neuroscience B.S. degree is the basis for the Honors degree in Neuroscience. Students must elect two terms of independent research (under PSYCH 424 & 426, MCDB 300, MCDB 400, or MCDB 360 or 460 (*if elected FA20 or later*), maintain an overall and GPA in the major of 3.4, complete an Honors thesis and give a research presentation based on their Honors work.

Prior to applying to the Neuroscience Honors Program students must identify a research mentor from the approved Neuroscience Honors Thesis Sponsor/Co-Sponsor Faculty list. Students may conduct Honors research with faculty in other units on the University of Michigan campus who are not on this list, but must have a formal co-sponsor relationship with a faculty member who is on the approved list.

Students apply to the Honors Program in Neuroscience by submitting a Neuroscience Honors Application with a research proposal. Neuroscience Honors applications are due by no later than the end of the add/drop period one semester prior to graduation (i.e., approximately September 25 for students graduating at the end of Winter term, and approximately January 25 for students graduating at the end of the Fall term or Summer term). When special circumstances apply, the honors committee may accept an application beyond the normal due date. Upon approval by the chair of the Neuroscience Steering Committee students are declared into the Honors plan. Honors theses must be submitted by December 1, April 1, or August 1 of the term of graduation.

Written evaluations of the Honors thesis must be submitted by the mentor and up to two faculty readers. Honors theses must be submitted no later than one calendar month prior to the date of graduation.

For more information, including the Honors Program Application, please visit: <http://lsa.umich.edu/neurosci/undergraduates/honors-program.html>

Oceanography Minor

The minor in Oceanography is designed to provide students with broad introductions to oceanography, to the geological processes active on the seafloor and the seashore, and to the geological evolution of the ocean basins and their sediment records of past climates. Note that by LSA rules, only one course may be elected in common to a minor and a major. Our innovative and flexible majors provide an interesting path for students to follow on their way to an LSA degree. From our field camp at Camp Davis in Wyoming, to lab work on campus, Michigan students have an opportunity to explore the geological sciences in exciting ways.

The Department of Earth and Environmental Sciences offers:

- an ***Earth and Environmental Sciences Major*** and an ***Honors Plan***
- a ***Teacher's Certificate Program***, for prospective science teachers who are candidates for a secondary teaching certificate in earth science and general science; and,
- Academic minors in ***Earth Sciences, Environmental Geology, Geology, Oceanography***, and ***Paleontology***.

Effective Winter 2021

Exclusions:

Not open to students electing the minor in Earth Sciences.

Advising

Students wishing to pursue a minor in the Department of Earth and Environmental Sciences must develop a specific plan for its completion in consultation with the department's designated advisor. Appointments are scheduled online www.lsa.umich.edu/earth/undergraduate

Prerequisites

None.

Requirements

Minimum Credits: 15

1. **One introductory geoscience course** must be taken from one of the following two groups:
 - *Group 1.* Courses with laboratory: EARTH 116, 118&119, 120, 201, 218&219.
 - *Group 2.* Courses without laboratory (EARTH 119, 205&206, 219).
2. **Core courses:** EARTH 222, 223.
3. **Elective courses (5-7 credits)** to be elected from the following:
 - CHEM 467
 - EARTH 305, 320, 321, 333, 409, 420, 421, 422, 446, 449, 452, 465, 467, 478, 479;
 - EEB 380
 - AOSS 320, 321, 410, 420, 467
 - ENSCEN 420, 455, 467
 - NAVARCH 320, 440
 - or permission of advisor

Organizational Studies Major

Organizational Studies is an interdisciplinary major program, emphasizing the influence of

economic, psychological, sociological, political, and other factors on individuals and complex organizational systems. The field is concerned with how organizational systems function, their effects on individuals and the larger society, and with the processes of organizational change.

The curriculum is designed to provide:

1. core courses focusing on concepts fundamental to organizational theory and research;
2. cluster and elective courses to provide breadth and depth in understanding links between the individual and organizations on the one hand, and organizations and society on the other; and
3. courses designed to provide field-based experience in organizational research, analysis and practice.

The major is also designed to balance the study of challenging theoretical issues with diverse and refined methods of empirical inquiry.

Students may find this major appropriate preparation for careers or graduate work in business administration, consulting, communication and media, education, human resources, industrial and organizational psychology, public health, public policy, social and non-profit administration, the sociology of work and organizations, and related fields.

Effective Fall 2022

Advising

Appointments may be scheduled with the department advisor, or the prospective student advisor via our online web scheduling system. See our homepage www.lsa.umich.edu/orgstudies

Grade Policies

Pre-requisite courses may be taken P/F, but the underlying letter grade received will be considered in the OS application review.

Prerequisites

Students must complete one course in each of the following three areas:

1. Economics (ECON 101)
2. Psychology (PSYCH 111, 112, 114, or 115)
3. Sociology (SOC 100, 102, 195 or 300).

Prerequisite courses may be taken P/F, but the underlying letter grade received will be considered in the OS application review.

All students should be aware that additional prerequisites are required for many of the upper-level courses in the OS curriculum. Depending on their particular area of interest, students may wish to complete additional entry-level courses in political science, communication studies, women's studies, and/or economics as they prepare to apply to the OS Program.

Application. Students must apply for and be accepted into the major. **Students are declared into the major by the department advisor only.**

Application for the major can be submitted during the sophomore year. It is preferred that applicants have all three prerequisites completed at the time of application. At a minimum, to be eligible to apply, you must have completed (with final grades showing) at least two of the three prerequisite courses, and be currently enrolled in the third.

Admission is very competitive and enrollment in the major will be limited to assure a high quality educational experience. Program faculty will make admission decisions based on a holistic review, with consideration given to overall grade point average at the time of application, with special attention given to grades in the three prerequisite courses, resume, and a personal statement written by the applicant.

Requirements

Minimum Credits: 34

1. **Core requirements.** Two courses are required [6 credits]:
 - ORGSTUDY 305: Inside Organizations
 - ORGSTUDY 310: Formal Organizations and Environments
2. **Senior Capstone Research Requirement.** ORGSTUDY 410 (or ORGSTUDY 497&498 for Honors majors).
3. **Cluster Requirements.** 7 courses (21 credits minimum), chosen from Clusters A, B, and C:
 - Two courses must be from Cluster A, two from Cluster B, and the remaining three in any cluster (A,B, or C)
 - Two of the cluster courses must be 300/400-level ORGSTUDY courses, taken for a minimum 3 credits each.
 - No more than 2 cluster courses can be at the 200-level

The cluster requirements are designed to provide disciplinary variety in the study of organizations, drawing on courses in a number of fields, and ranging across multiple levels of organizational analysis.

A. **Organizations and Individuals (Cluster A)** [2 course minimum]. Cluster A courses focus mainly on questions and topics concerning the organized behavior of individuals or the behavior of individuals in organizations. These courses may address the relations of individuals to larger structures such as the family or formal organizations, but their concern with the larger structures will typically remain the impact thereof on *individual* psychology or *individual* behavior.

*A complete list of acceptable Cluster A courses is available on the **Organizational Studies website**.*

B. **Organizations and Society (Cluster B)** [2 course minimum]. Cluster B courses are those that focus mainly on questions and topics concerning the organization of social groups (*e.g.*, ethnic groups), historical processes (*e.g.*, the rise of capitalism), and/or medium to large social structures (*e.g.*, corporations, national governments, or global governing bodies). Although they may at times address the impact of such larger social structures and processes on individual behavior or may include attention to particular individuals from U.S. or world history, the primary concern of Cluster B courses is with questions about how social groups, historical processes, and social structures emerge, remain stable, and/or change.

*A complete list of acceptable Cluster B courses is available on the **Organizational Studies website**.*

- C. **Interest Cluster Courses (Cluster C)** [minimum of 9 credits]. Cluster C courses are electives intended to allow majors to pursue their curriculum pathway interests in a more specialized way. These should have an organizational theme and can be of either the micro or macro variety, but are almost always more narrow and focused in their content.

*A complete list of acceptable Cluster C courses is available on the **Organizational Studies website**.*

Courses taken as ORGSTUDY 395: *Current Issues in Organizational Studies*, ORGSTUDY 490: *Advanced Research Team*, and ORGSTUDY 495: *Special Topics* may be included, when appropriate and in consultation with the department advisor, as a course in Cluster A, Cluster B, or Cluster C.

4. **Quantitative Skills Requirements** [3 credit minimum]. One course from the following:
- SOC 210
 - STATS 250 or 280
5. **Electives** (as needed). Students may choose electives from any requirement area on the OS curriculum list as needed to reach the overall 34 credit requirement for the OS major.

Constraints

- Additional courses may on occasion be used as part of the plan for the major with written approval from the department advisor.
- No more than six credits of upper-level independent study / experiential credit may count toward the major.
- ORGSTUDY 499 does not automatically count toward the major, but may be petitioned in individual cases.

Residency

Limit of two courses taken off the AA campus (not including Camp Davis, Biological Station, or Michigan-in-Washington programs)

Distribution Policy

No course used to fulfill a major requirement may be used toward the **LSA Distribution Requirement**. In addition, courses in the ORGSTUDY subject area may not be used toward the Distribution Requirement.

Honors

Effective Fall 2014

The Organizational Studies Honors Plan (OSHC) is designed to enable advanced undergraduate students to gain experience in the design, conduct, and analysis of research on organizations and organizational behavior. In the program, the Honors student will collaborate directly with a faculty mentor to complete an original research project. For students with strong academic records and an interest in research, the Honors program can

serve as a capstone for undergraduate studies, and as important preparation for graduate studies or other future endeavors.

The Organizational Studies Honors Plan is focused solely on research skills and activities, and interested students should be certain that they have a serious interest in academic research and the capability and desire to complete a prolonged independent study project culminating in a major empirical research paper.

Formal Application to the OS Honors Plan. To qualify for the Honors plan, students must have a cumulative GPA of 3.4 or higher, and must maintain it through graduation. To apply to the OSHC, an application including a project proposal that has been approved by the faculty mentor must be submitted. **Deadline for submitting OS Honors Plan application:** First Friday in March of the junior year. If admitted, the student will enroll in the OS Senior Honors Research sequence in the senior year (ORGSTUDY 497 & 498). These are independent study courses in which the student will work on research and a thesis with a faculty mentor, and together may replace ORGSTUDY 410 to fulfill the senior research capstone requirement.

Program Completion. The Honors student must submit the final thesis to the faculty mentor by the first Friday in March of their senior year, and also must present the findings at the OS Honors Symposium in early April.

Each thesis is evaluated by a faculty panel consisting of three readers: the faculty mentor, an independent faculty reader, and the OS Honors coordinator. The readers will complete their evaluation of the thesis by the end of classes. To receive an Honors designation on the college degree, the faculty readers must approve the thesis, and the Honors student must have a cumulative GPA of at least 3.40 at graduation.

Students interested in the Organizational Studies Honors Plan may obtain further information on the OS website.

Paleontology Minor

The minor in Paleontology is designed for students interested in the history of life on Earth. Entry and core courses will provide students with insight into the major features of the fossil record, the methods used in historical sciences, and the theoretical issues dealt with by paleontologists. The advanced courses are meant to satisfy more specific interests.

Our innovative and flexible majors provide an interesting path for students to follow on their way to an LSA degree. From our field camp at Camp Davis in Wyoming, to lab work on campus, Michigan students have an opportunity to explore the geological sciences in exciting ways.

The Department of Earth and Environmental Sciences offers:

- an ***Earth and Environmental Sciences Major*** and an ***Honors Plan***
- a ***Teacher's Certificate Program***, for prospective science teachers who are candidates for a secondary teaching certificate in earth science and general science; and,

- Academic minors in *Earth Sciences*, *Environmental Geology*, *Geology*, *Oceanography*, and *Paleontology*.

Effective Fall 2018

Exclusions:

Not open to students electing the minor in Earth Sciences.

Advising

Students wishing to pursue a minor in the Department of Earth and Environmental Sciences must develop a specific plan for its completion in consultation with the department's designated advisor. Appointments are scheduled online www.lsa.umich.edu/earth/undergraduate

Prerequisites

None.

Requirements

Minimum Credits: 15

1. **Entry courses** (3-6 credits required). The "entry point" into the minor may include paleontology-oriented courses (EARTH 103, 106, 125, 150) or geology-related courses (EARTH 116, 118&119, 120, 149, 201, 205, 206, 207).
2. **Core courses** (4 credits required). EARTH 418 and 419 are required.
3. **Elective courses** (remaining 5-8 credits). Students may choose from:
 - EARTH 313, 431, 437, 438, 439, 444, 445, 498 (for 1-3, but no more than 3 credits), 506, 510, 511, 513, 536 (no more than 1 credit)
 - ENVIRON 431
 - EEB 390, 445
 - or permission of advisor

Minor in Performing Arts Management and Entrepreneurship (PAME)

The SMTD minor in Performing Arts Management and Entrepreneurship (PAME) invites exceptional students to add arts management and venture training to their academic portfolio. Such training is intended to amplify the careers of students engaged with the performing arts through knowledge, skills, and hands-on experiences to increase and broaden the impact of their creative talents. Similarly, students in Business, Communications, Design, or other programs throughout the University can add an arts business dimension to their curriculum. Understanding ideation, budgeting, fundraising, project management, marketing, production, social impact, corporate structures, and creative problem solving techniques can help advance all careers in the arts. Whether working independently, within a for-profit or social-profit institution, or most likely in some combination of ventures, performing arts management and entrepreneurship training amplifies the symbiosis of artistry, business, and community that enriches the performing arts and culture as a whole.

Applying and Advising: Students interested in the PAME minor should contact Professor Greg Poggi or smtdexcel@umich.edu. The PAME minor is open to all eligible U-M undergraduate students. Those interested in this minor must take at least one course from the list of gateway courses to become eligible for the minor. Once a gateway course is completed successfully, the student would interview with a PAME advisor and apply for admission to the minor.

Conditions: An overall GPA of 2.0 or above within the minor must be achieved; all courses used to fulfill minor requirements must be elected both for credit and for a grade; students may elect both an LSA music minor and the PAME minor; up to six credits earned outside of U-M or its sponsored programs may be used to fulfill requirements for the minor.

Exclusions: Production practica are not eligible courses for the minor; no more than two courses fulfilling a requirement in the PAME minor may simultaneously be counted to cover another degree requirement; AP credits may not be used to satisfy minor requirements.

Requirements: At least 15 credits with a minimum of five courses chosen from each of the following three categories. All eligible courses taken prior to application to the minor can be used to fulfill the 15 credit requirement. The minor requires one introductory course, a minimum of two electives, and at least one practicum course or capstone project. A student's path through the minor should be developed in consultation with an advisor to meet a student's professional goals. While taking the introductory course early in a student's period of study is recommended, courses may be taken in any order.

Required Introductory Course

Minimum 1 course selected from the following:

- THEATRE 385: Performing Arts Management (2 credits);
THEATRE 250 is a prerequisite for THEATRE 385
- ARTSADMN 450: Arts Entrepreneurship Essentials (3 credits)
- ARTSADMN 472: Business of Music (3 credits)

SMTD Elective Courses

Complete at least 2 courses among eligible elective courses

- ARTSADMN 406: Special Topics in Arts Administration (3 credits)
- THEATRE 435: Producing in American Theatre (3 credits)
- THEATRE 438: Legal Issues in the Arts (3 credits)
- ARTSADMN 475: Music Industry Workshop: Starting Music Businesses (3 credits)
- ARTSADMN 477: Creating Social Value through the Arts (3 credits)
- ARTSADMN 410: Arts Entrepreneurship Forum (2 credits)
- THEATRE 426: Fundraising and the Arts (2 credits)
- ARTSADMN 401: Your Career in the Arts (1 credit)
- ARTSADMN 402: Money Smarts for Artists (1 credit)
- ARTSADMN 421: DIY Marketing and Social Media (1 credit)
- ARTSADMN 422: Writing About Your Art (1 credit)
- ARTSADMN 423: Grant Writing and Fundraising Basics (1 credit)
- ARTSADMN 424: Legal Essentials for Artists (1 credit)
- ARTSADMN 428: Arts Leadership (1 credit)
- ARTSADMN 431: Running Your Own Ensemble, Theatre Troupe, or Dance

Company(1 credit)

- ARTSADMN 432: The Recording Industry (1 credit)
- ARTSADMN 433: Media Technology Careers (1 credit)
- ORGSTUDY 495: Non-Profit Organizations (2 credits)
- RCHUMS 334: Community Empowerment through the Arts (4 credits)
- Other related courses by petition and approval of the PAME academic advisor (variable credits)

Practica

Complete a capstone project through at least one of the following courses. Note that anyone course may be repeated once and a maximum of four practicum courses may be used for the minor.)

- ARTSADMN 475: Music Industry Workshop: Launching Music Businesses (3 credits)
- ARTSADMN 477: Creating Social Value through the Arts (3 credits)
- ARTSADMN 491: Internship (1-4 credits)
- ARTSADMN 493: Special Projects (1-3 credits)
- ARTSADMN 495: EXCEerator Practicum (1-3 credits)
- ARTSADMN 497: Community Service Project (1-3 credits)

Philosophy Major

Philosophy is the systematic study of questions any thoughtful human being faces concerning the nature of knowledge, reality, thought, and value. What is valuable and what is value? What gives thought and language meaning? What is truth, and how can we know it? The main value of philosophy lies in its contribution to a liberal arts education. It can, however, also provide excellent preparation for a wide variety of professions (notably, law), because of the training it provides in rigorous thinking and incisive and clear writing. Philosophy cuts across other academic disciplines by examining their concepts, methods, and presuppositions. So a concentration or academic minor in Philosophy can also be a superb complement to a concentration in another field. Further details are available on the department's web page www.lsa.umich.edu/philosophy.

Effective Winter 2022

Advising

Prospective majors, especially students contemplating graduate work in philosophy, should consult a department advisor as early as possible in order to work out an appropriate, unified program. Appointments are scheduled through the on-line scheduling system available on the department's web page: www.lsa.umich.edu/philosophy/undergraduate/advisorappointments.

Grade Policies

No course will count toward the major unless the student receives a grade of C- or better. This includes all courses including prerequisites, required courses, and electives.

Prerequisites

Any 100- or 200-level course other than PHIL 180, 183 (*if elected after FA20*), 201, 296 (logic courses). None of these courses counts toward the requirements for the major. PHIL 288 or 289 may be used as a prerequisite or toward a requirement, but not both.

Requirements

Minimum Credits: 25

Majors must take at least 25 credits of Philosophy.

In fulfilling the credit requirement students must also satisfy the following distribution requirements:

1. *Formal Methods*: PHIL 296, 303, 305, 413, or 414
2. *History of Philosophy*: One course from among:
 - PHIL 288 (W18), 289 (W18), 388, or 389. PHIL 288 or 289 may be used as a prerequisite or toward a requirement, but not both;
 - and one additional course from among: PHIL 288 (W18), 289 (W18), 323 (W18), 371, 385 (W18), 386 (W18), 388, 389, 391 (W18), 392 (W18), 393/CLCIV 369 (W18), 405, 406, 433 (W18), 458, 460, 461, 462, 463, 464, 466 (W18), 467, 474 (W18), and 492
3. *Value*: One of PHIL 361: Ethics or 366: Political Philosophy or 367: Social and Political Philosophy or PPE 300: Introduction to Political Economy
4. *Mind and Reality*: Either PHIL 345: Language and Mind or 381: Science and Objectivity or 383: Knowledge and Reality
5. Three additional courses:
 - i. Two additional 400-level courses (other than PHIL 419, 455, 498, or 499). Note: students are not permitted to use any course to satisfy more than one requirement. For example, if you use a 400-level course to satisfy the logic or history requirements, you cannot use that same course to satisfy this requirement.
 - ii. One additional course at the 300-level or higher,

The courses needed to satisfy these requirements are not always offered every term. Majors should plan their programs so that they can be sure to take the courses they need before they can graduate.

Residency

At least 16 credits, including requirement 5.1, must be taken in residence.

Distribution Policy

No course used to fulfill a major requirement may be used toward the **LSA Distribution Requirement**. In addition, courses in the PHIL subject area may not be used toward the Distribution Requirement.

Honors

Qualified students who are interested in an Honors major in Philosophy should consult a department advisor as early as possible. Except in cases where special permission is granted, students must have a cumulative grade point average of at least 3.4 and a 3.5 average in completed courses in philosophy in order to be eligible for admission. Honors majors are required to complete 28 (rather than 25) credits in the major, including PHIL 401 and 498 or 499, which is taken in the senior year. Before enrolling in PHIL 498 or 499, students must submit a thesis proposal for the department's approval. Only students who have written an Honors thesis will be considered for graduation with Honors degrees. Students are admitted to the Honors major at the beginning of the junior year (or later) by permission of the Honors department advisor.

Philosophy Minor

The Academic Minor in Philosophy (formerly known as the General Philosophy Minor) is designed to provide students with an education in philosophy that will complement a major in some other discipline and that will, among other things, illuminate philosophical issues that arise in that other discipline. The *Philosophy minor* aims to provide students basic philosophical skills and training, exposure to rigorous core courses, and some advanced work but does not aim for the breadth and comprehensiveness of the major or for depth in any particular area.

Effective Winter 2022

Exclusions:

A minor in Philosophy is not open to students with a major in Philosophy.

Advising

Students wishing to pursue a minor in Philosophy must develop a specific plan for its completion in consultation with the department's designated advisor. Appointments are scheduled through the on-line scheduling system available on the department's web page: [/lsa.umich.edu/philosophy/undergraduates/advisor-appointments.html](https://lsa.umich.edu/philosophy/undergraduates/advisor-appointments.html)

Grade Policies

No course will count toward the minor unless the student receives a grade of C- or better. This includes all courses including prerequisites, required courses, and electives.

Prerequisites

None

Requirements

Minimum Credits: 15

1. Any 100- or 200-level course other than PHIL 180, 183, 201, 296 (logic courses). PHIL 288 or 289 may be used toward this requirement or (ii) below, but not both.
2. **At least one course at the 400-level**, other than formal methods (PHIL 413, 414)
3. **A minimum of 15 credits of Philosophy**, at least 9 of which (including the required 400-level course) must be taken in residence.
4. No course will count toward the minor unless the student receives a grade of C- or better.

Additional Requirements:

- i. One course in Logic or Formal Methods (PHIL 180, 183 (F18), 201, 296, 303, 305, 413, or 414)
- ii. Two courses from: PHIL 288 (F18), PHIL 289 (F18), PPE 300, any 300-level PHIL courses other than PHIL 303, PHIL 305, PHIL 399. PHIL 288 or 289 may be used toward this requirement or #1 above, but not both.
- iii. One 400-level course, which must not include 401, 413, 414, or 455

Residency

At least nine credits, including the required 400-level course, must be taken in residence.

Philosophy, Politics, and Economics (PPE)

Major

The Department of Philosophy, in conjunction with the Department of Economics and the Department of Political Science, offers PPE as an interdisciplinary major program in political economy. The program will stress analytic rigor and critical reasoning, and is unique in combining normative inquiry, empirical methods, and formal tools of analysis. It integrates the study of the relationships of government, political processes, property, production, markets, trade, and distribution from the standpoint of assessing these arrangements with respect to the interests and progress of humanity. The following features are characteristic of research in political economy:

- Exploration of the relations between individual action and collective outcomes as they shape and are shaped by environmental conditions, institutions, social norms, ideologies, and strategic and communicative interaction
- Special attention to the consequences of these relations for politics (voting, political parties, lobbying, elections, social movements, revolution, civil war, state failure, oligarchy, dictatorship, corruption, *etc.*), law and economic policies (taxation, regulation, property and trade regimes, macroeconomic management, *etc.*), aggregate economic outcomes (business cycles; the provision, degradation, or maintenance of public goods, *etc.*), and justice and human welfare (poverty, inequality, intergroup relations, freedom, *etc.*)
- Formal methods of analysis including decision theory, game theory, evolutionary game theory, behavioral economics, and agent-based modeling; the use of analytic frameworks (such as principal-agent problems and positional competition) to understand characteristic problems that arise for human beings across disparate domains of action
- Critical reflection on the uses and limits of these methods and frameworks in light of empirical information and interpretations drawn from other disciplines, including history, psychology, and sociology, as well as normative and conceptual analysis
- Integration of formal, empirical, interpretive, and normative inquiry to evaluate and design existing and alternative economic systems, constitutions, smaller-scale institutions, organizations, and social norms with a view toward improving their justice and service to human welfare.

The PPE major provides Michigan undergraduates with a rigorous, integrated, and interdisciplinary program of study that brings together three major approaches to understanding human beings and their social and political interactions. Core courses will expose students to a wide range of analytical tools and research methods in the social sciences, and will seek to foster the critical reasoning and rhetorical skills that are essential for philosophical writing and argumentation.

Effective Fall 2019

Advising

PPE is governed by the director of PPE and a PPE committee composed of one faculty

member from each of Philosophy, Economics, and Political Science. It is administered by the Philosophy Department. PPE advising is managed by the Undergraduate Studies Committee in Philosophy. Appointments with a department advisor may be scheduled online at: https://webapps.lsa.umich.edu/advappts/AA_StuSelfSvc1.aspx?ctgy=PHIL.

Grade Policies

Admission to PPE is conditional on earning C- or better in all prerequisites. No course will count toward the major unless the student receives a grade of C— or better.

Prerequisites

1. one 100- or 200-level PHIL course other than PHIL 180, 183, 201, 296 (logic)
2. one introduction to political science: POLSCI 101 or 111 or 140 or 160
3. ECON 101 and ECON 102
4. One course in calculus (MATH 115, 116, 121, 156, 176, 185, 186, 215, 285, 295, or 296).

Application

Students must apply for and be accepted into the major. **Students are declared into the major by a department advisor only.**

Due to the rigorous and interdisciplinary nature of its subject matter, and to ensure a high quality educational experience, the PPE program will be selective (as it is in many other PPE programs in the U.S.) and require an application. Applications are considered for a limited period in the Winter term. Applicants will be notified of admission before registration for Fall term classes. Newly entering transfer students who need to declare a major may apply in the Fall term. Application deadlines will be announced on the PPE website. The optimal time for a student to apply to PPE is the Winter term of the sophomore year.

It is advisable for second-year applicants to have completed or be currently enrolled in the prerequisites to the major, and at least one further course that can be counted toward the major. However, applications are welcome from all students who have concrete plans to promptly complete all prerequisites. Admissions will be primarily based on the grade point average in the prerequisite courses and other courses satisfying PPE requirements, overall grade point average, and a brief personal statement. Admission to PPE is conditional on earning C- or better in all prerequisites (with a C or better in the calculus prerequisite).

Requirements

Minimum Credits: 33

The major consists of 12 courses. Courses must be distributed as follows:

1. **PPE Core Courses:**
 - A. *Economics:* ECON 401: Intermediate Microeconomics
 - B. *Gateway:* PPE 300: Introduction to Political Economy
 - C. *Capstone:* PPE 400: Senior Seminar in Political Economy (Honors students take PPE 401-2 instead)
2. **Core Distribution Requirements** PPE integrates normative inquiry and formal analytical tools with the substantive study of politics and economics. The PPE major therefore requires two courses each in normative theory, political economy, and formal methods.
 - A. *Formal Reasoning:* one course in statistics and one additional course in statistics,

logic, decision theory, or game theory from the list below.

- i. One course in statistics. Choose from among:
 - ECON 404: Statistics for Economists
 - ECON 405: Introduction to Statistics
 - POLSCI 300: Quantitative Empirical Methods of Political Science
 - STATS 250: Introduction to Statistics and Data Analysis
 - STATS 280: Honors Introduction to Statistics and Data Analysis
 - STATS 426: Introduction to Theoretical Statistics
 - ii. A course in other formal methods central to political economy – statistics, logic, decision theory, or game theory from the following:
 - ECON 398: Strategy
 - ECON 409: Game Theory
 - PHIL 296: Honors Introduction to Logic
 - PHIL 303: Introduction to Symbolic Logic
 - PHIL 305: Introduction to Formal Philosophical Methods
 - PHIL 413: Formal Philosophical Methods
 - PHIL 414: Mathematical Logic
 - PHIL 443: Foundations of Rational Choice Theory
 - PHIL 444: Groups and Choices
 - POLSCI 381: Political Science Research Design
 - POLSCI 391 / CMPLXSYS 391: Introduction to Modeling Political Processes
 - POLSCI 488: Political Dynamics
 - POLSCI 490: Game Theory and Formal Models
 - POLSCI 499: Quantitative Methods of Political Analysis
 - CMPLXSYS 391 / POLSCI 391: Introduction to Modeling Political Processes
 - MATH 425 / STATS 425: Introduction to Probability
 - SOC 315: Economic Sociology *only section titled, "Money Markets & Power"* (F18); all topics (W18)
 - STATS 425 / MATH 425: Introduction to Probability
- B. *Normative Theory*: two 300- or 400- level courses in political philosophy, political theory, or welfare economics from the list below. One philosophy course must be taken to satisfy either the normative theory requirement or one of the three required theme courses.
- ECON 408 / PHIL 408: Philosophy and Economics
 - ECON 496. History of Economic Thought
 - PHIL 359: Law and Philosophy
 - PHIL 361: Ethics
 - PHIL 366: Introduction to Political Philosophy
 - PHIL 367: 19th Century Social and Political Philosophy
 - PHIL 369: Philosophy of Law
 - PHIL 384: Applied Epistemology: Race, Ethnicity & Knowledge
 - PHIL 408 / ECON 408: Philosophy and Economics
 - PHIL 430: Topics in Ethics
 - PHIL 431: Normative Ethics
 - PHIL 433: History of Ethics

- PHIL 441: Social Philosophy
 - PHIL 442: Topics in Political Philosophy
 - PHIL 445: Philosophy of Law
 - PHIL 446: Social and Political Philosophy of Language
 - POLSCI 301: Development of Political Thought: To Modern Period
 - POLSCI 302: Development of Political Thought: Modern and Recent
 - POLSCI 306: American Political Thought
 - POLSCI 400: Selected Topics in Political Theory (*appropriate sections*)
 - POLSCI 401 / WGS 422 (WOMENSTD 422): Feminist Political Theory
 - POLSCI 402: Liberalism and Its Critics
 - POLSCI 403 / CLCIV 403: Greek Political Thought
 - POLSCI 404: Foundations of Modern Political Thought
 - POLSCI 405: Political Philosophy of the Enlightenment
 - POLSCI 409: Twentieth Century Political Thought
 - POLSCI 495: Undergraduate Seminar in Political Theory (*appropriate sections*)
 - CLCIV 403 / POLSCI 403: Greek Political Thought
 - WGS 422 (WOMENSTD 422) / POLSCI 401: Feminist Political Theory
- C. *Political Economy*: two courses engaging the economics of government or the politics of economic activity or institutions from the list below.
- AAS 347 / RCSSCI 343 / SOC 335: Urban Inequality in America
 - CMLXSYS 391/POLSCI 391: Introduction to Modeling Political Processes
 - ECON 330 American Industries (prior to Fall 2017)
 - ECON 398: Strategy
 - ECON 402: Intermediate Macroeconomic Theory
 - ECON 408 / PHIL 408: Philosophy and Economics
 - ECON 409: Game Theory
 - ECON 425 / POLSCI 425: Inequality in the United States
 - ECON 432: Government Regulation of Industry
 - ECON 481: Government Expenditures
 - ECON 482: Government Revenues
 - PHIL 408 / ECON 408: Philosophy and Economics
 - POLSCI 322: Legislative Process
 - POLSCI 337: Comparative Constitutional Design
 - POLSCI 340: Governments and Politics in Western Europe, *section titled "A Game-Theoretic Approach to West European Politics"*
 - POLSCI 341: Comparative Politics of Developed Democracies
 - POLSCI 343: Political Economy of Developed Democracies
 - POLSCI 348: Political Economy of Development
 - POLSCI 363: International Organization & Integration
 - POLSCI 364: Public International Law
 - POLSCI 369: Politics of International Economic Relations
 - POLSCI 387: Comparative Analysis of Government Institutions
 - POLSCI 389: Topics in Contemporary Political Economy, *section titled "Political Strategy & Debate"*
 - POLSCI 391 / CMLXSYS 391: Introduction to Modeling Political

Processes

- POLSCI 425 / ECON 425: Inequality in the United States
- POLSCI 432: Law and Public Policy
- POLSCI 462: Strategic Interaction in World Politics
- POLSCI 496: Undergraduate Seminar in American Government and Politics, *sections titled "U.S. State Economic Development Policies", "Modern Debates in U.S. Constitutional Law"*
- RCSSCI 343 / SOC 335 / AAS 347: Urban Inequality in America
- SOC 335 / AAS 347 / RCSSCI 343: Urban Inequality in America

3. **Themes:** three additional courses (or two additional courses plus the Honors thesis sequence for Honors students) in a single theme in political economy. *At least two of these courses must be at the 400-level, and two must come from distinct academic disciplines.* PPE students are advised to start planning their themes as soon as they are admitted to the major. One philosophy course must be taken to satisfy either the normative theory requirement or one of the three required theme courses.

Students will devise a plan for advanced study focusing on a single theme in political economy, which may be normative, methodological, theoretical, or applied. Each student will write up a rationale for their theme in consultation with their PPE advisor and submit it to their advisor for approval. Possible themes could include advanced studies in any of the core areas, or focus on particular subjects/methods – for example, decision-making & strategic interaction, globalization, justice & equality, or comparative political economy. Courses listed under the core requirements may be used to satisfy the theme requirement as long as they are not also being used to satisfy the core requirement. The PPE committee will recommend courses for the theme requirement and post those to the PPE website. Students may propose courses not on the list that make a coherent fit with their theme. PPE advisors are authorized to approve such courses for the theme requirement.

Non-Honors students would follow their theme with the capstone seminar.

Other Department Policies

PPE Majors may use introductory Political Science, Philosophy, or Economics courses toward their College Area Distribution requirement.

Residency

At least 16 credits must be taken in residence.

Distribution Policy

No course used to fulfill a major requirement may be used toward the **LSA Distribution Requirement**. In addition, courses in the PPE subject area may not be used toward the Distribution Requirement.

Honors

To be admitted to the Honors PPE program, students must have at least a 3.4 cumulative GPA and a 3.5 in courses used to satisfy PPE requirements, or permission of the director of PPE. Prospective PPE Honors students should begin planning their Honors program with their advisor as soon as possible.

In addition to fulfilling the prerequisites, PPE core, and distribution requirements, Honors students will take two courses in their theme and dedicate their thesis to a research project in that theme.

Honors students will fulfill their thesis requirement using the vehicles offered for that purpose by one of PPE's 3 sponsoring departments (Philosophy, Political Science, or Economics). Students should choose the appropriate thesis track depending on their primary disciplinary orientation and the content of their theme. Honors students will submit a thesis proposal for approval by the director of PPE, and must in addition meet all prerequisites and requirements for honors in the sponsoring department supervising the thesis.

- For a thesis oriented toward Philosophy: Seniors will first enroll in PHIL 401, the thesis-preparation seminar in Philosophy. The following term, they will enroll in PPE 402, in which they will work with an individual advisor who has agreed to supervise their research.
- For a thesis oriented toward Political Science: Students must first complete POLSCI 381: Political Science Research Design with an A- or better. They must then submit a research proposal and secure a thesis advisor by the end of their junior year by applying for honors through the Political Science major application process, which is normally open from February until the end of Winter term. Seniors whose applications are accepted will enroll in POLSCI 493 and POLSCI 494, a two-semester thesis-writing sequence that runs in conjunction with supervision under an individual thesis advisor.
- For a thesis oriented toward Economics: Seniors will enroll in ECON 495: Seminar in Economics or ECON 498: Honors Independent Research, and secure an advisor in consultation with their instructor. Most economics-oriented PPE theses would be expected to enroll in ECON 495, which is the primary Honors thesis vehicle for Economics majors.

Honors in PPE will be recommended by a two-person committee consisting of the student's advisor plus a second reader in one of the other units, on the basis of the written thesis and an oral defense. The final award of Honors is conditional on achieving a 3.5 GPA overall and in PPE, and on approval by the Director of PPE.

Physics Major

The undergraduate major in physics is designed to provide—through quantitative analysis—a thorough introduction to our current understanding of the physical world. A major in physics leads to a wide array of post-graduation options, including: graduate level study of physics and related disciplines; direct entry to the job market in technical, analytic, and education settings; and professional school in medicine, law, or business.

Undergraduates concentrating in physics have several degree choices:

- Physics
- **Interdisciplinary Physics**
- Honors Physics Program
- **Physics Minor**

The University of Michigan has one of the country's premier physics programs with top-notch facilities for instruction and a variety of experimental and theoretical research groups open to undergraduate students.

Effective Fall 2021

Advising

Students with any questions about courses or majors in Physics should speak with Physics department advisors.

Students wishing to pursue a minor in Physics must develop a specific plan for its completion in consultation with the department's designated advisor.

Advising appointments can be scheduled in the Physics Student Services Office, 1440 Randall Lab [(734) 764-5539] or via the online advising calendar <http://lsa.umich.edu/physics/undergraduate-students/major---minor-programs.html>

Grade Policies

Students must earn at least a C-in all courses they plan to include in the major, including the prerequisites.

Prerequisites

Students prepare for the study of physics by completing the following introductory sequences (four courses total).

One of the following 100 level lectures:

- PHYSICS 140: General Physics I (should be taken concurrently with PHYSICS 141)
- PHYSICS 150: Fundamental Physics for the Life Sciences I (should be elected concurrently with PHYSICS 151)
- PHYSICS 160: Honors Physics I (should be elected concurrently with PHYSICS 141 or 161)

One of the following 100 level labs:

- PHYSICS 141: Elementary Laboratory I (should be taken concurrently with PHYSICS 140)
- PHYSICS 151: Physics for the Life Sciences Laboratory I (should be elected concurrently with PHYSICS 150)
- PHYSICS 161: Honors Introductory Mechanics Lab (should be elected concurrently with PHYSICS 160)

One of the following 200 level lectures:

- PHYSICS 240: General Physics II (should be elected concurrently with PHYSICS 241)
- PHYSICS 250: Fundamental Physics for the Life Sciences II (should be elected concurrently with PHYSICS 251)
- PHYSICS 260: Honors Physics II (should be elected concurrently with PHYSICS 241 or 261)

One of the following 200 level labs:

- PHYSICS 241: Elementary Laboratory I (should be elected concurrently with PHYSICS

240)

- PHYSICS 251: Physics for the Life Sciences Laboratory II (should be elected concurrently with PHYSICS 250)
- PHYSICS 261: Honors Electricity and Magnetism Lab (should be elected concurrently with PHYSICS 260)

Students who begin the introductory sequence should have completed at least one semester of calculus (MATH 115 or equivalent). Students who have not already done so should continue their study of mathematics concurrently with their PHYSICS coursework, progressing through differential equations (typically the fourth semester of calculus).

Students who passed one or more AP Physics exams with a score of 5 or higher or who passed the IB HL exam with a 4 or higher are strongly encouraged to elect the honors introductory sequence (PHYSICS 160, 161, 260, and 261).

It is not necessary to complete all courses in the prerequisite sequences in order to declare the physics major. Students are encouraged to officially declare as soon as they make the decision.

Requirements

Minimum Credits: 29

Once a student has mastered introductory content and declared the major, they prepare for advanced study of the discipline by fulfilling the Intermediate Courses Requirement (four courses), then move on to master advanced concepts, skills, problems, and topics of the discipline by completing the Advanced Courses Requirement (five courses), an Elective Requirement (two courses), and Advanced Elective Requirement (one course).

Intermediate Courses Requirement

Students must complete all of the following:

- PHYSICS 340: Waves, Heat, and Light –OR– PHYSICS 360: Honors Physics III
- PHYSICS 351: Methods of Theoretical Physics I
- PHYSICS 390: Introduction to Modern Physics (must be taken concurrently with PHYSICS 391)
- PHYSICS 391: Introduction to Modern Physics Lab (must be taken concurrently with PHYSICS 390)

Ideally, PHYSICS 351 is elected no later than the second semester of the sophomore year. It is an enforced prerequisite for PHYSICS 390 and the Advanced Courses Requirement. PHYSICS 390 and 391 can be elected concurrently with PHYSICS 401 or 405 (part of the Advanced Courses Requirement).

Advanced Courses Requirement

Students must complete all of the following:

- PHYSICS 401: Intermediate Mechanics
- PHYSICS 405: Intermediate Electricity and Magnetism
- PHYSICS 406: Statistical and Thermal Physics
- PHYSICS 441: Advanced Laboratory I
- PHYSICS 453: Quantum Mechanics

Students are encouraged to complete both PHYSICS 401 and 405 before electing PHYSICS 453.

Elective Requirement

Students round out their study of physics by taking two of the following elective courses:

- PHYSICS 402: Optics
- PHYSICS 411: Introduction to Computational Physics*
- PHYSICS 413 / CMPLXSYS 541: Introduction to Nonlinear Dynamics and the Physics of Complexity
- PHYSICS / BIOPHYS / CHEM 417: Dynamical Processes in Biophysics
- PHYSICS / BIOPHYS 433: Biocomplexity
- PHYSICS 435: Gravitational Physics
- PHYSICS 438: Electromagnetic Radiation
- PHYSICS 442: Advanced Laboratory II*
- PHYSICS / BIOPHYS 450: Laboratory Techniques in Biophysics
- PHYSICS 452: Methods of Theoretical Physics II
- PHYSICS 460: Quantum Mechanics II (requires previous completion of PHYSICS 453)
- PHYSICS 463: Introduction to Solid State Physics (requires previous completion of PHYSICS 453)

Advanced Elective Requirement

Students complete their study of physics by taking one of the following advanced elective courses:

- PHYSICS 411: Introduction to Computational Physics*
- PHYSICS 442: Advanced Laboratory II*
- PHYSICS 495: Physics Research Capstone

Physics Honors students are ineligible to elect PHYSICS 495 as their Advanced Elective Requirement. Honors students should elect PHYSICS 496/497.

*If either PHYSICS 411 or PHYSICS 442 are being used to meet the Elective Requirement, the course cannot be used to also meet the Advanced Elective Requirement.

Constraints

Courses elected as pass/fail may not be included in the major.

Residency

A minimum of 15 credits at the 300 level or above must be completed in residence. **In-residence:** Courses elected on the Ann Arbor campus or at off-campus sites directed by Ann Arbor faculty. This includes STDABRD, Camp Davis, Biological Station, Michigan-in-Washington

Distribution Policy

No course used to fulfill a major requirement may be used toward the **LSA Distribution Requirement**. In addition, courses in the PHYSICS subject area may not be used toward the Distribution Requirement.

Honors

Talented and highly motivated students who have an interest in conducting independent

research are encouraged to complete an honors major. In addition to the requirements for major, honors majors must complete an additional six PHYSICS credits numbered at the 400 level or above and produce a senior thesis under the supervision of a faculty member. PHYSICS 495 cannot be used towards an Honors major. Instead, students may count up to 3-credits of PHYSICS 496/497: Senior Thesis upon department advisor approval. (Note: PHYSICS 415 will not count toward a Physics Honors major.)

Physics Minor

The University of Michigan has one of the country's premier programs for the training of undergraduate and graduate students in physics. The Physics Department has abundant facilities for instruction in physics and offers a wide variety of experimental and theoretical research programs open to undergraduate and graduate students.

Undergraduates concentrating in physics have several degree choices:

- **Physics (B.S.)**
- **Interdisciplinary Physics (A.B. or B.S.)**
- Honors Physics Program
- Physics Minor

A total of 60 credits of mathematics and natural science must be elected to receive the Bachelor of Science degree.

Interested undergraduates may also want to look into work in medical physics (a promising path for pre-med students) in the **Applied Physics program**, or in the **Engineering Physics program**.

The analytical and quantitative thinking skills you will develop as you work toward any of these degrees will be of great value in many different **careers**. Most physics majors at U-M follow one (or more) of three paths after graduation:

- graduate work in physics or another field
- employment in industry, software development, or associated field
- professional school in medicine, business, law, or associated area.

The goal of physics is to understand the behavior of matter and energy on every level, from the origins of the universe in the Big Bang to the interior of atoms in your computer screen. In seeking a pure understanding of how the world works, physicists have revolutionized our lives.

Completing an undergraduate degree in physics will give you a rich understanding of how the world works. It will also prepare you either for continued study in graduate or professional school, or for careers in industry, education, medicine, and finance.

Effective Fall 2021

Exclusions:

A minor in Physics is not open to students with any major in the Department of Physics, or with

a major in Engineering Physics.

Advising

Students with any questions about courses or minors in Physics should speak with Physics department advisors.

Students wishing to pursue a minor in Physics must develop a specific plan for its completion in consultation with the department's designated advisor.

Advising appointments can be scheduled in the Physics Student Services Office, 1440 Randall Lab, by phone at (734) 936-0659, or via the **online advising calendar**.

Grade Policies

Students must earn at least a C- in all courses they plan to include in the minor.

Prerequisites

None.

Requirements

Minimum Credits: 18

1. Introductory Course Sequence:

- One of the following 100-level mechanics lectures: PHYSICS 140, PHYSICS 150, or PHYSICS 160
- One of the following 100-level mechanics labs: PHYSICS 141, PHYSICS 151, or PHYSICS 161
- One of the following 200-level E&M lectures: PHYSICS 240, PHYSICS 250, or PHYSICS 260
- One of the following 200-level E&M labs: PHYSICS 241, PHYSICS 251, or PHYSICS 261

2. PHYSICS 340 or PHYSICS 360

3. PHYSICS 390 and PHYSICS 391

Constraints

Test Credit and the Physics Minor

Although PHYSICS course credit may be awarded on Advanced Placement (AP) Physics or International Baccalaureate (IB) exams, LSA policy does not allow test credits to be counted toward the requirements of a minor. Students with Physics test credit must complete additional courses within the Physics department for a total of at least 15 PHYSICS course credits.

Additional course selection(s) may include PHYSICS courses at the 300-level or above and are subject to approval by a department advisor.

Residency

At least 9 credits must be taken in-residence. **In-residence:** Courses elected on the Ann Arbor campus or at off-campus sites directed by Ann Arbor faculty. This includes STDABRD, Camp Davis, Biological Station, Michigan-in-Washington

Plant Biology Major

The Plant Biology major provides undergraduates with training in those areas of science that are essential to an understanding of modern plant sciences. Like the Biology major, this major deals with all of the major levels of biological organization (molecular, cellular, organismal, ecological, and evolutionary), but differs from the Biology major by its greater emphasis on the biology of plants. This program is well suited for those who wish to study biology as part of a liberal education, or to prepare for a teaching career in secondary schools. It also provides excellent preparation for graduate study in basic and applied areas of the plant sciences and related fields, such as ecology, genetics, microbiology, and biochemistry.

Effective Winter 2019

Exclusions:

Students who elect a major in Plant Biology may not elect the following majors: Biology, Biology, Health, and Society (formerly known as General Biology); Cellular and Molecular Biomedical Science (formerly known as CMB:BME); Molecular, Cellular, and Developmental Biology (MCDB - formerly known as Cellular & Molecular Biology or CMB); Ecology, Evolution, and Biodiversity; Ecology and Evolutionary Biology; Microbiology; or Neuroscience. They may also not elect a minor in Biology; Ecology and Evolutionary Biology; Plant Biology; Chemistry; or Biochemistry.

Advising

Students are advised by a combination of Undergraduate Biology Office staff and faculty department advisors. **Advising** topics include investigating majors, declaring a major, course planning, research and honors, major releases, graduate school and career advice. Students who are interested in the Program in Biology majors or minors should consult a general advisor during the freshman year, and are strongly encouraged to meet with a department advisor early in their academic career, but no later than the second term of their sophomore year. It is not necessary to complete every prerequisite before declaring a major.

To make an appointment, go to the Program in Biology website at www.lsa.umich.edu/biology.

Grade Policies

Total Credits and GPA Requirement for Plant Biology

Minimum 30 cr. in Major

Minimum 2.0 GPA in Major

GPA is calculated from all mandatory prerequisites, all courses used for major requirements (including cognates), and all courses in BIOLOGY, EEB, and MCDB.

The introductory biology sequence must be taken for a grade. Prerequisites other than introductory biology may be taken pass/fail; however, it is not recommended, especially for chemistry. Remember that at least a C- must be earned to pass a course taken pass/fail.

Courses used for the major may not be taken pass/fail.

Prerequisites

Introductory Biology Sequence:

Choose Sequence A, B, or C:

- A. BIOLOGY 171, BIOLOGY 172 or 174; & BIOLOGY 173; or
- B. BIOLOGY 195 (AP/IB) & BIOLOGY 173; or
- C. BIOLOGY 191 (transfer credit), BIOLOGY 192, & BIOLOGY 173

Chemistry Sequence:

- CHEM 210 & 211; and,
- CHEM 215 & 216

Quantitative Analysis Sequence:

- STATS 206 (*only if elected F20 or later*), STATS 180 (AP), STATS 250, or STATS 280; and
- Two courses from the following options:
 - CALCULUS I: MATH 115, 120 (AP), 175, 185, or 295
 - CALCULUS II: MATH 116, 121 (AP), 156, 176, 186, or 296
 - General Physics I: PHYSICS 125, 135, 139, 140, 150 (*only if taken FA21 or later*) or 160
 - General Physics II: PHYSICS 126, 235, 239, 240, 250 (*only if taken FA21 or later*) or 260
 - Elementary Programming: EECS 183
 - Mathematics of Life: BIOLOGY 202

Requirements

Minimum Credits: 30

Required General Courses: Select at least three of the four courses listed. (*Note: the fourth course not used to fulfill this requirement may be taken as an additional elective.*)

- Ecology: BIOLOGY 281 or 282 or EEB 381
- Genetics: BIOLOGY 305
- Biochemistry: Choose from: MCDB 310, BIOLCHEM 415, or CHEM 351
- Evolution: EEB 390, 391, or 392

Required Plant Biology Courses: (*Note: Any course used to fulfill this requirement cannot also be used as an Elective Plant Biology Course: i.e., a course cannot "double-count".*)

- BIOLOGY 230 (Plant Biology)
- BIOLOGY 255 (Plant Diversity), **or** EEB 420 (Plant Evolution), **or** EEB 436 (Woody Plants)
- MCDB 321 (Plant Physiology), **or** MCDB 430 (Plant Molecular Biology), **or** MCDB 433 (Plant Biochemistry)

Elective Plant Biology Courses: Two courses from the Elective Plant Biology Lab course list are required; one must be a lab. (*Note: Any course used to fulfill this requirement cannot also be used as a Required Plant Biology Course: i.e., a course cannot "double-count".*)

- Group I - Choose one course from the approved Elective Plant Biology Lab course list: EEB 300*, 348, 372, 373, 400*, 436, 489, 455, 457, 468, 556; MCDB 300*, 400*; EARTH 432
(*EEB/MCDB 300 or 400 (Independent Research), elected for a minimum of 3 credits in a single term and conducted in a plant biology research lab, may be used to fulfill the lab requirement.) (3 credit max. applies; see CONSTRAINTS below.)
- Group II - Choose one course from: EEB 348, 372, 401 (applicable sections only), 420,

436, 455, 457, 468, 472, 489, 491, 498, 556; MCDB 321, 401 (applicable sections only), 405, 406, 430, 433, 462; EARTH/ENVIRON 431; EARTH 432

Additional Courses:

- Choose additional BIOLOGY, EEB, and MCDB courses at the 200-level and above, to reach 30 major credit hours.
 - BIOLOGY 200, BIOLOGY 241, BIOLOGY 299, EEB/MCDB 301, EEB/MCDB 302, EEB/MCDB 800, MCDB 412, MCDB 461 (*only if elected WN21 or later*), MCDB 600, and non-specific (departmental) transfer courses are EXCLUDED.
 - The fourth course not taken under "Required General Courses" above may be used here.

Constraints

- Prerequisites, introductory science courses, and non-specific (departmental) transfer courses are EXCLUDED from the 30 cr. required for the major.
- A maximum of three credits of independent research (EEB/MCDB 300 or 400 or MCDB 360 or 460 if elected FA19 or later) may be counted toward the major.

Distribution Policy

No course used to fulfill a major requirement may be used toward the **LSA Distribution Requirement**. In addition, courses in the BIOLOGY, EEB, MCDB, and MICRBIOL subject areas may not be used toward the Distribution Requirement.

Honors

The Program in Biology administers an Honors Program to train students to conduct independent research in the biological sciences. Participating in the honors program allows students to develop their research skills, deepen their understanding of the field, and form productive relationships with faculty and other students. The achievement is noted on the diploma and official transcript.

In addition to completing all the requirements for the major, an honors degree requires:

1. an overall **and** major GPA of at least 3.4, and
2. the completion of a significant piece of independent research that is
 - a. reported in an honors thesis and
 - b. presented in a public forum.

For more information, consult the Program in Biology Honors Program Information page or a Program in Biology advisor.

Playwriting (Minor)

The minor offers a foundation that explores the collaborative nature of writing for the stage.

The Playwriting Minor focuses on principles and techniques for the composition of creative works in theatre. The program includes in-depth instruction in the craft of writing, analysis, script editing/reading, and possible creation of full production(s). The minor is dedicated to examining

new play development, applied theatre, devised theatre, and other nontraditional ways of creating stories. The minor is also geared towards preparing students who wish to work in other theatrical spaces such as dramaturgy, literary management, and education.

Applying and Advising: Students interested in the Playwriting minor should contact Professor José Casas. Students in the playwriting minor must adhere to any prerequisites that are required of any given class.

Conditions & Exclusions: Up to six credits earned outside of U-M or its sponsored programs may be used to fulfill requirements for the minor; No more than one course fulfilling a requirement in the Playwriting minor may simultaneously be counted to cover another degree requirement.

Requirements:

Minimum seventeen credits over three areas

Required Topics Courses I

THEATRE 227: Introductory Playwriting (3 credits)

THEATRE 327: Playwriting II (3 credits)

THEATRE 427: Advanced Playwriting (3 credits)

Required Topics Courses II

(3 credits selected from the following)

THEATRE 101: Introduction to Acting (3 credits)

THEATRE 181: Acting I (3 credits)

Electives

ENGLISH 223: Introduction to Creative Writing (3 credits)

ENGLISH 230: Introduction to Novel and Short Story (3 credits)

RCHUMS 281: Introduction to Comedy and Tragedy: Inside the Dramatic Process (4 credits)

RCHUMS 341: Community Empowerment through the Arts: An Intro to Theory and Practice (3 credits)

RCHUMS 482: Director and Text¹ (4 credits)

THEATRE 241: Directing I¹ (3 credits)

THEATRE 283: Script Analysis (2 credits)

THEATRE 321: History of Theatre I (3 credits)

THEATRE 322: History of Theatre II (3 credits)

THEATRE 323: American Theatre and Drama (3 credits)

THEATRE 325: Contemporary American Theatre and Drama (3 credits)

THEATRE 332: Performing Archives and Oral Histories¹ (3 credits)

THEATRE 333: Documentary Theatre (3 credits)

THEATRE 340: Devising Theatre¹ (3 credits)

THEATRE 399: Topics in Drama^{1,2} (1-4 credits)

THEATRE 417: Theatre Internship² (1-3 credits)

THEATRE 429: Writing for Production (3 credits)

THEATRE 434: Writing Musical Theatre¹ (2-3 credits)

THEATRE 435: Producing in American Theatre (3 credits)

Screen Arts and Culture (SAC) 210: Intro to Screenwriting (3 credits)
Screen Arts and Culture (SAC) 308: Screenwriting for Non-majors (3 credits)

¹*Courses must be approved by Instructor and/or must meet any prerequisites that may be required.*

²*Courses must be approved by Program Advisor/Playwriting Faculty Member.*

Polish Major

The Polish Program at the University of Michigan is considered one of the strongest, possibly the strongest, Polish programs in the country. Language courses are the core, with offerings including First, Second, Third, and Fourth Year Polish. U-M is thus the only American university to offer four levels of Polish every year. It also offers on a regular basis Polish literature survey courses, as well as courses on Polish drama, novel, film, and popular culture. People of Polish heritage form the fourth largest ethnic group in the state of Michigan, and a great number of students at the University of Michigan have Polish roots. The strength of the program has been possible thanks to intensive cooperation with the Center of Russian and East European Studies. The Center actively supports Polish activities across the campus and helps coordinate a large network of faculty that include in their teaching and research different aspects of Polish culture. The Polish program also benefits from the activities of the Copernicus Endowment, most notably its annual Copernicus Lectures delivering leading Polish scholars, artists, writers, and public figures.

The concentration is intended for undergraduates who have an interest in Polish language and culture for academic, cultural, or frequently heritage reasons. It will appeal to students who are contemplating professional, scholarly, or business careers that will involve work in Poland. Its goal is to give interested students a solid base in Polish language and culture, knowledge they can apply in a future academic and/or professional career. It aims to enable research and day-to-day communication, at the same time that it provides competence in salient aspects of Polish literature and culture.

In addition to the major, the department offers an academic minor in Polish Language, Literature, and Culture.

Effective Winter 2013

Advising

Piotr Westwalewicz should be consulted by prospective majors before the end of the sophomore year. Appointments are scheduled online at www.lsa.umich.edu/slavic/undergraduate/advising.

Prerequisites

POLISH 121, 122, 221, and 222, or the equivalent.

Requirements

Minimum Credits: 27

At least 15 of the 27 credits must be upper-level (300 or above).

1. **Polish Language:** 6-12 credits of POLISH 321, 322, 421, 422; or equivalent

2. **Polish Literature:** 6-9 credits of POLISH 325, 326, 432
3. **Polish Culture:** 6-9 credits of POLISH 214, 215, 314, 450, SLAVIC 490*
4. **Electives.** 3-9 credits of:
 - SLAVIC 225, 240, 270, 312, 396, 490* (Polish topics);
 - HISTORY 330, 331
 - REEES 396

**(appropriate sections of SLAVIC 490 include “Rocks Kill Communism” and “Revolution in the Attic”)*

Up to two terms of another Slavic language (Bosnian / Croatian / Serbian, Czech, Russian, Ukrainian); see department for additional course options).

Residency

At least 15 of the 27 required credits must be taken in residence or through a study abroad program affiliated with the University of Michigan. Study Abroad credit may count toward the major. Please consult with the Polish advisor prior to studying abroad.

Distribution Policy

No course used to fulfill a major requirement may be used toward the **LSA Distribution Requirement**. In addition, courses in the RUSSIAN, BCS, CZECH, POLISH, SLAVIC, and UKR subject areas may not be used toward the Distribution Requirement.

Polish Language, Literature, and Culture Minor

The minor in Polish Language, Literature, and Culture is designed to give students a fundamental competence in Polish language upon which they can build, as well as a knowledge of some of the major cultural achievements and individual masterpieces of Polish literature and cinema.

The intended audience comprises all undergraduates with substantial interest in Polish studies, but with insufficient time to pursue a major in this area. Such students might include those who envision doing professional work in Poland, those intending to pursue graduate work in areas related to Polish culture and society, as well as those who may wish to learn more about their own heritage.

Effective Winter 2021

Exclusions:

Academic minors in Slavic Languages and Literatures are not open to those electing a major or any other academic minor in the department of Slavic Languages and Literatures, nor those electing a concentration in Russian, East European, and Eurasian Studies.

Students could concurrently pursue this academic minor with one in REES with the following restrictions:

- (1). REES academic minors may not count any course for which Slavic is the home unit.
- (2). Slavic academic minors may not count REEES 397 or any course for which REES is the home

unit, which includes SLAVIC 395 and 396.

Advising

Students wishing to pursue an academic minor in the Department of Slavic Languages and Literatures must develop a specific plan for its completion in consultation with the department's designated advisor, Dr. Piotr Westwalewicz.

Appointments are scheduled online at www.lsa.umich.edu/slavic/undergraduate/advising

Prerequisites

POLISH 121, 122, and 221, or equivalent.

Requirements

Minimum Credits: 16

1. **Polish language:** POLISH 222, or equivalent
2. **Polish literature and culture:** 6 credits in POLISH 214, 215, 314, 325, 326, 432, 450, SLAVIC 490*
3. **Electives:**
 - 6 credits in SLAVIC 225, 240, 270, 312, 396, 423, 490 (*appropriate sections**)
 - HISTORY 330, 331
 - Up to three credits of Third-Year Polish (POLISH 321 and 322) may be counted.

See department for additional course options

* (*appropriate sections of SLAVIC 490 include "Rocks Kill Communism" and "Revolution in the Attic"*)

Residency

At least 9 of the 16 required credits must be taken in residence or through a study abroad program affiliated with the University of Michigan.

Study Abroad credit may count toward the minor. Please consult with the Polish advisor prior to studying abroad.

Political Science Major

Political science is the systematic study of governmental and political structures, processes, and policies. This study uses institutional, quantitative, and philosophical approaches. The field is highly diverse, ranging across political theory, comparative government, international relations, American government, public policy, and research methods. Political scientists concentrate on public opinion and voting, organized political behavior, governmental institutions, studies of single countries, comparisons across countries and relations among countries. The field addresses both normative and empirical concerns.

Effective Fall 2016

Advising

Normally, the decision to major is made late in the sophomore year or early in the junior year.

Advising appointments are scheduled by going to the **Political Science website** or by contacting the department office. Appointments for the Honors advisor are scheduled at 1330 Mason Hall.

Prerequisites

Students should prepare for advanced study in the discipline by completing two of the following introductory courses:

- POLSCI 101: Introduction to Political Theory
- POLSCI 111: Introduction to American Politics
- POLSCI 140: Introduction to Comparative Politics
- POLSCI 160: Introduction to World Politics

In rare circumstances, departmental advisors may approve the use of an upper-level course to meet the prerequisite.

Requirements

Minimum Credits: 30

At least 30 credits in POLSCI at the 300 level or above (in addition to required prerequisites). Only eight credits of Experiential and Independent Study credit may be included in the major. Only four of these credits can come from POLSCI 399.

Core courses must be elected from the 300-level or higher and include at least:

- two courses at the 400-level, or
- one 400-level POLSCI course and one ULWR POLSCI course.

Students are encouraged to elect an undergraduate topics seminar at the 400 level (POLSCI 495, 496, 497, or 498) in their senior year.

Political science majors are expected to acquire an appreciation of the diverse styles of political inquiry by electing at least one course in four of the following five subfields: political theory, American government, comparative politics, world politics, and methodology. Coursework from both the prerequisite and upper-level courses are used to meet this requirement. STATS 250 does not count toward methods requirements for the major.

Roster of POLSCI subfields and courses

- **American**
111, 300, 310, 311, 312, 313, 314, 315, 316, 317, 318, 319, 320, 321, 322, 323, 324, 326, 327, 329, 330, 331, 332, 333, 334, 335, 380, 385, 410, 432, 482, 484, 486, 496
- **Comparative**
140, 336, 337, 338, 339, 340, 341, 342, 343, 344, 345, 346, 347, 348, 349, 350, 351, 352, 353, 354, 355, 356, 357, 358, 359, 362, 382, 387, 395, 396, 397, 451, 497
- **Methods**
300, 381, 391, 488, 490, 499; PUBPOL 201
- **Theory**
101, 301, 302, 306, 307, 308, 309, 400, 401, 402, 403, 404, 405, 406, 407, 408, 409, 495
- **World**
160, 360, 361, 363, 364, 365, 368, 369, 370, 371, 372, 379, 462, 463, 498

Residency

- At least 12 credits – including both 400 level courses – must be taken on the Ann Arbor campus.
- Only 12 credits of study abroad coursework in political science may be counted toward the major.
- Students are encouraged to seek preapproval of study abroad selections.

Distribution Policy

No course used to fulfill a major requirement may be used toward the **LSA Distribution Requirement**. In addition, courses in the POLSCI subject area may not be used toward the Distribution Requirement.

Honors

Especially well-qualified students are encouraged to undertake an Honors plan, which involves preparing a thesis under the direction of a faculty member. To become eligible for the Honors plan, students must take POLSCI 381 before their senior year. During the senior year, students enroll in a proseminar in which they prepare the thesis.

The department collects applications to the Honors plan during the winter of each academic year. Students usually apply during their junior year. Sophomore majors who have completed POLSCI 381 may apply during their sophomore or junior year. To be admitted to the Honors plan, students must have:

- received an A-range grade in POLSCI 381,
- a grade point average of 3.5 or higher both overall and in Political Science courses,
- secured a faculty member as a thesis advisor,
- written a thesis research proposal (which is generally done in POLSCI 381).

The Honors plan requires at least 34 credit hours of POLSCI coursework at the 300 level or above and must include the following:

- POLSCI 381: Political Science Research Design
- POLSCI 493 : Senior Honors Proseminar (fall only)
- POLSCI 494: Senior Honors Proseminar (winter only)
- at least one course in four of the following five subfields: political theory, American government, comparative politics, world politics, and methodology.

A student must end their undergraduate career with at least a 3.5 GPA in political science coursework and a 3.4 overall GPA in order to receive any level of Honors with their diploma.

Teaching Certificate

Students interested in obtaining a secondary teaching certificate with a teaching major or minor in Political Science should consult "Teacher Certification Program" and the School of Education Teacher Education Office, 1228 School of Education Building, (734) 615-1528.

Political Science Minor

The minor in political science gives students training in a rigorous discipline and way of thinking and understanding problems. This is an indispensable part of any liberal arts major. Political Science gives students a better understanding of the way public affairs are conducted and a more practical knowledge of how citizens, elected representatives, judges, and administrators approach the decisions they are called upon to make. A minor in political science prepares students to become more active citizens by training them to become astute and informed observers of political behavior in their own country and around the world.

Effective Fall 2015

Exclusions:

A minor in Political Science is not open to students with a major in the Department of Political Science.

Advising

Students wishing to pursue a minor in Political Science must develop a specific plan for its completion in consultation with the Department's designated advisor.

Prerequisites

Students should prepare for advanced study in the discipline by completing two of the following introductory courses:

- POLSCI 101: Introduction to Political Theory
- POLSCI 111: Introduction to American Politics
- POLSCI 140: Introduction to Comparative Politics
- POLSCI 160: Introduction to World Politics

In rare circumstances, departmental advisors may approve the use of an upper-level course to meet the prerequisite.

Requirements

Minimum Credits: 15

In addition to the prerequisite courses, students who wish to complete the minor in Political Science must complete five POLSCI courses at the 300 level or above for a minimum of 15 credits.

The minor in Political Science is a structured course of study. A sustained focus on two disciplinary subfields makes it possible for students to acquire this structure without completing a full major. Therefore, core courses in the minor must be taken in the same subfield (political theory, American politics, comparative politics, or world politics) as the prerequisite courses. Only three credits of Experiential and Independent Study credit may be included in the minor.

Residency

At least three of the five upper level courses must be taken on the Ann Arbor campus.

Polymer Chemistry Minor

The Polymer Chemistry minor provides a concentrated exposure to a subspecialization within Materials Science from a chemical sciences perspective. The curricula in Chemistry serve those preparing for careers in chemistry, biochemistry, medicine, chemical engineering, pharmacy, and allied fields as well as those seeking a general knowledge of chemistry as part of a liberal arts education. Beyond the first-year courses, there is an emphasis on development of technical knowledge and laboratory experience needed in chemistry and related scientific fields. The undergraduate majors prepare students for work in research and testing laboratories, as well as for business positions in which a chemistry background is desirable. Graduate work is necessary for those planning to do college and university teaching or industrial research.

It is strongly recommended that students who are thinking of degrees in chemistry should arrange an appointment with a Chemistry advisor via the online advising system as soon as possible, preferably before the end of the freshman year but certainly before the end of the sophomore year. The online appointment scheduling system can be found here: <http://www.umich.edu/~michchem/undergrad/index.html>.

Effective Winter 2023

Exclusions:

*The Polymer Chemistry Academic Minor is not open to students concentrating in Biochemistry, Biomolecular Science, Interdisciplinary Chemical Sciences, or Chemistry. Students electing a minor within the Department of Chemistry may only elect **ONE** of the five minors offered by the Department.*

Advising

Students wishing to pursue a minor offered by the Chemistry Department must develop a specific plan for its completion in consultation with the Department's designated advisor. **Chemistry**, **Chemical Physics**, Polymer Chemistry, and **Chemical Measurement Science** minors are arranged in consultation with any Chemistry department advisor, while **Biochemistry** minors are arranged in consultation with any Biochemistry advisor. Information about scheduling advising appointments is available from the Department's **website**.

Grade Policies

The department strongly recommends that a student earn a grade of at least C– in all CHEM courses and mathematics, physics, and biology courses that are prerequisite for subsequent elections. A major program grade point average of at least 2.0 is required; this includes chemistry courses, mathematics, physics, and biology prerequisites, and advanced electives that are part of a major plan. Prerequisites must be taken for a grade. Students must request any change in a chemistry course grade within the first fifteen University Business days of the first full term following the term in which the disputed grade was issued.

Prerequisites

- MATH 115 (or 120), or equivalent;
- PHYSICS 125, 139, 140, 150, 160, or equivalent.

Requirements

Minimum Credits: 18

At least 18 credits of courses as follows: CHEM 210/211, CHEM 215, CHEM 260 or 370, CHEM 302 or 303, CHEM 436, CHEM 538.

Teaching Certificate

Those seeking a B.S. or B.S. Chem. degree with a teaching certificate in Chemistry must fulfill departmental as well as School of Education requirements. Students who plan to earn a teaching certificate with a teaching major or minor in Chemistry should contact the School of Education Teacher Education Office.

Polymer Chemistry (Minor) (Fall 2015 - Fall 2022)

Effective Fall 2015

Exclusions:

*The Polymer Chemistry Academic Minor is not open to students concentrating in Biochemistry, Biomolecular Science, Interdisciplinary Chemical Sciences, or Chemistry. Students electing a minor within the Department of Chemistry may only elect **ONE** of the five minors offered by the Department.*

Advising

Students wishing to pursue a minor offered by the Chemistry Department must develop a specific plan for its completion in consultation with the Department's designated advisor. **Chemistry, Chemical Physics, Polymer Chemistry, and Chemical Measurement Science** minors are arranged in consultation with any Chemistry department advisor, while **Biochemistry** minors are arranged in consultation with any Biochemistry advisor. Information about scheduling advising appointments is available from the Department's **website**.

Grade Policies

The department requires that a student earn a grade of at least C- in all CHEM courses and mathematics and physics courses which are prerequisite for subsequent elections. A major program grade point average of at least 2.0 is required; this includes chemistry courses, mathematics and physics prerequisites and advanced electives which are part of a plan for the major. Prerequisites must be taken for a grade. Students must request any change in a grade within the first fifteen University Business days of the first full term following the term in which the disputed grade was issued.

Prerequisites

- MATH 115 (or 120), or equivalent;
- PHYSICS 135, 140, or equivalent.

Requirements

Minimum Credits: 18

At least 18 credits of courses as follows: CHEM 210/211, CHEM 215, CHEM 260 or 370, CHEM 302 or 303, CHEM 436, CHEM 538.

Teaching Certificate

Those seeking a B.S. or B.S. Chem. degree with a teaching certificate in Chemistry must fulfill departmental as well as School of Education requirements. Students who plan to earn a teaching certificate with a teaching major or minor in Chemistry should contact the School of Education Teacher Education Office.

Portuguese Minor

Portuguese is one of the 10 most widely spoken languages in the world uniting approximately 250 million speakers throughout several continents including Brazil, Portugal, Angola, Mozambique, Cape Verde, Guinea-Bissau, São Tomé & Príncipe, and East Timor. It is also the language of immigrant communities in North America, Central Europe, South Africa, and in the Asia/Pacific region.

Students can select language courses from the beginning level, PORTUG 101-102, through 231-232 or 415. The entire Portuguese program has been revamped, with the creation of 8 new courses emphasizing the whole of the Portuguese-speaking world: Brazil, Portugal, and Lusophone Africa.

The objectives of the Portuguese minor are to facilitate students' proficiency and knowledge acquisition in the Portuguese language and on the cultures of the Lusophone (or Portuguese-speaking) world, namely, Angola, Brazil, Cape Verde, Mozambique, Guinea-Bissau, Portugal, and São Tomé and Príncipe. This minor offers students the opportunity to complement the knowledge gained in their principal field while focusing on linguistic competence and a grounding in one of the world's most spoken languages and its greatly diverse cultures. In addition to enhanced career opportunities, it also fosters critical thinking skills in relationship to cultures other than their own.

The Portuguese minor would attract undergraduate students at the University of Michigan from a variety of disciplines, ranging from the humanities and social sciences to the business school and the health sciences, who wish to complement their degree studies with proficiency in the Portuguese language as well as a solid knowledge foundation of Lusophone countries.

When combined with study in another field, knowledge of a Romance language will open doors to a wide variety of career and educational opportunities. Today, learning of other languages, peoples, and cultures is not only useful, it is imperative.

Effective Winter 2023

Advising

Appointments are scheduled **online** or at the department office, 4108 Modern Languages Building, (734) 764-5344.

Prerequisites

PORTUG 232 or the equivalent.

Requirements**Minimum Credits:** 18

A minimum of 18 credits beyond PORTUG 232. PORTUG 287: Advanced Portuguese Conversation and Composition is required.

Constraints

Students pursuing the minor in Portuguese may petition to have up to three courses (no more than 9 credits) from other units (for example, History, Afro-American and African Studies, as well as Latin American and Caribbean Studies), taught in English, which have a Brazilian, Lusophone African, and/or Portuguese focus to count for the minor. Courses from outside the PORTUG subject be approved in advance by a Portuguese advisor in the department of Romance Languages & Literatures.

Residency

At least 9 of the 18 credits for the minor must be taken in residence or in a study abroad program affiliated with the University of Michigan.

Portuguese (Minor) (Fall 2019 - Fall 2022)

Effective Fall 2019

Advising

Appointments are scheduled **online** or at the department office, 4108 Modern Languages Building, (734) 764-5344.

Prerequisites

PORTUG 232 or the equivalent.

Requirements**Minimum Credits:** 18

A minimum of 18 credits beyond PORTUG 232. PORTUG 287: Advanced Portuguese Conversation and Composition is required. Students must choose PORTUG courses beyond PORTUG 287 for the remaining part of the coursework, with the exception of PORTUG 280, which may be counted toward the 18 credits for the Portuguese minor.

Constraints

Students pursuing the minor in Portuguese may petition to have up to three courses (no more than 9 credits) from other units (for example, History, Afro-American and African Studies, as well as Latin American and Caribbean Studies), taught in English, which have a Brazilian, Lusophone African, and/or Portuguese focus to count for the minor. Courses from outside the PORTUG subject be approved in advance by a Portuguese advisor in the department of Romance Languages & Literatures.

Residency

At least 9 of the 18 credits for the minor must be taken in residence or in a study abroad program affiliated with the University of Michigan.

Psychology Major

The overall goal of the Psychology concentration is to provide students with a broad background in the various levels of analysis and methodological approaches used in the study of behavior, particularly human behavior, and to prepare students for graduate study in a number of fields. Students can gain research training, experience in a wide variety of community settings, and tailor course selections to meet their long-term post-graduate goals. A Psychology degree, in conjunction with courses chosen from other disciplines, can prepare students for careers interacting with people of all ages and backgrounds in a wide range of fields.

The curriculum in psychology is intended to enhance one's understanding of behavioral science and of oneself and others in terms of concepts developed by study. The undergraduate major program is not intended to prepare students for any specific vocational objective; to become a professional psychologist requires from two to four years (or more) of graduate study.

Curriculum Guides. Curriculum Guides are available for both Psychology and Biopsychology, Cognition, and Neuroscience majors. Clusters are groupings of courses (both within the Department of Psychology and throughout other programs at the University of Michigan) that focus on a more specific area related to psychology. Students are encouraged to refer to these clusters when making academic and career goals.

The following clusters are currently available:

- Behavioral and Cognitive Neuroscience
- Business, Systems, and Organizations
- Culture, Context, and Communities
- Development, Psychopathology, and Mental Health
- Evolution, Biology, and Behavior
- Gender, Psychology, and Society
- Health, Development, and Aging
- Intergroup Relations
- Language, Thought, and Culture
- Law, Criminal Justice, and Forensics

Effective Winter 2023

Exclusions:

Students who elect a major in Psychology may not elect the Biopsychology, Cognition, and Neuroscience major.

Advising

The Department has Academic and Peer Advisors (during the Fall and Winter semester only) to support students with declaring and exploring majors, confirming major progress, assisting with research and course options, as well as discussing transfer credit, academic difficulties, and

graduate school options. Students can schedule an appointment in 1343 East Hall or **online**. Students are encouraged to review the **Psychology dept. course charts** to understand how current course offerings fit into **the major**.

Grade Policies

Credit/No-credit courses may be used toward the Lab requirement, but will not count toward the total number of psychology credits required for major.

Prerequisites

- an introductory course (PSYCH 111, 112, or 114) with a “C” or better
- STATS 250 or 280 with a "C-" or better, or "P"

Requirements

Minimum Credits: 32

A minimum of 40 credits, including the prerequisites and courses within the major. At least two courses must be taken at the 300-level.

1. Breadth Requirement: One course from each of three breadth groups

- Group I: PSYCH 220 or 235 or 240
- Group II: PSYCH 250 or 270
- Group III: PSYCH 280 or 290 or 291

2. Lab Requirement: To meet the lab requirement, students may complete either:

- two (at least 3 credits each) courses from the list of Methods-based Lab courses;
- one (at least 3 credits) course from the list of Methods-based Lab courses and one (at least 3 credits) course from the list of Experiential Lab courses (i.e., Community-based or Research-based); or
- the Psychology Thesis Research sequence (at least 6 credits total)

Methods-Based Lab Courses: PSYCH 300 (*if taken FA22 or later*), 301 (*if taken FA22 or later*), 302, 303, 331/332, 341, 342 (*if taken FA22 or later*), 351, 357, 361, 371, 381, 383, 391, 422, 423, 426, 429, 451, 457 *section titled "Developmental Methods" or "Research Methods in Educational and Cross Cultural Settings"*.

Experiential Lab Courses: (3 credits minimum to satisfy requirement):

- Community-based Lab Courses: PSYCH 211, 304, 305, 306, 307, 308, 310, 311, 317, 319, 324, 325, 404, 405, 485;
- Research-based Lab Courses: PSYCH 226, 322, 323, 326, 327, 422, 423, 424, 428

A total of six credits of Psychology letter-graded Experiential lab (community or research-based courses) may be counted towards the Psychology major.

Thesis Research Sequence: Honors - PSYCH 424 & 426; non-Honors - Psych 428 & 429

A minimum of three credits of Research-based courses must be taken in a single academic term to satisfy the Psychology Lab requirement. Students wishing to pursue the Psychology Honors Research Major should acquire research and statistical skills early in their major before applying.

3. **Electives:** Additional 300- and 400-level Courses for the major.

The remainder of the major is filled by at least four upper-level Psych lecture or seminar courses for a minimum of 12 credits:

- at least two of the courses must be at the 300-level (PSYCH 225 or COGSCI 200 may be substituted for one of these courses)
- at least one of the courses must be at the 400-level

Constraints

Student double majoring in Psychology and Neuroscience may share a maximum of 3 courses toward their two programs.

Residency

At least 24 credits must be completed through the Psychology department in-residence (AA Campus Department of Psychology and U-M Study Abroad). Of these 24 credits, 12 credits must be upper-division (300 or above).

Distribution Policy

No course used to fulfill a major requirement may be used toward the **LSA Distribution Requirement**. In addition, courses in the PSYCH subject area may not be used toward the Distribution Requirement.

Honors

The Honors Major in Psychology and in Biopsychology, Cognition, and Neuroscience

Psychology and Biopsychology, Cognition, and Neuroscience students with strong academic records and an interest in research are encouraged to consider participating in the Honors Major. The Honors Major is designed to enable advanced students to gain experience in design, conduct, and analysis of research studies. Students experience an intensive collaboration with a faculty member, and complete a significant effort to create new scientific knowledge. The Honors Major can serve as a capstone for their undergraduate studies, and as important preparation for graduate training or employment in a variety of fields.

1. **Requirements.** In addition to completing all the requirements for the major, an Honors degree designation requires having and maintaining a cumulative GPA of at least 3.4, participation in two terms of independent study Honors courses, presenting in the Annual Research Forum, and the completion and acceptance of a written thesis describing an original research project conducted in collaboration with a faculty mentor.
2. **Faculty Partnership.** Students wishing to pursue Honors should explore their interests in research and statistics early in their academic career. The student must then identify a faculty research mentor to work in partnership on an Honors project. The research mentor can be any faculty member or research scientist holding a faculty appointment in the University. Students must have one mentor from the Psychology Department. With the mentor as a collaborator, the student will prepare a project plan and timeline for completion. Application deadlines are posted on the Psychology Honors website.
3. **Admission to the Honors Major.** A student and their faculty research mentor must apply together for admission to the Honors Major; this includes an application and research proposal. Students are encouraged to apply the semester before their final year at the university (i.e., the end of their Junior year) to begin the Fall term of their Senior year.

4. **Courses.** Once accepted into the Honors Major, Psych and BCN majors will be issued overrides for PSYCH 424 for the first semester of their thesis, and PSYCH 426 in their final semester. The Honors courses are graded and may be used towards the lab requirements (PSYCH 424 = experiential/research lab; PSYCH 426 = methods lab) when taken for the appropriate number of credits (see Honors Major advisor for guidance). PSYCH 426 may satisfy the college upper-level writing requirement. Students may be required to take a Methods-based lab in addition to these courses, and are encouraged to meet with the Honors Major advisor to plan how each course will count toward their plan.
5. **The Honors Thesis.** The required senior Honors thesis is a written report describing the design and execution of the research project conducted in collaboration with the faculty mentor. The thesis will be due one calendar month before the anticipated graduation date. All Honors theses must be prepared in American Psychological Association (APA) format, and typically run 30-40 double-spaced pages in length. One electronic and hard copy of the thesis and a submission form must be submitted.
6. **Evaluation of Thesis.** The thesis will be evaluated by two-three readers: the mentor, an outside reader (a faculty member not involved in the research project), and a possibly representative of the Honors Major. Students and mentors are responsible for suggesting a second reader prior to submitting their application. The reports of all readers will address the quality of the science reported in the thesis, as well as the quality of the written presentation. The report of the mentor will also address the role the student played in the design, execution, and interpretation of the experiments reported in the thesis, and should point out the role played by others on the project. The Honors Director will then meet to review the recommendations of the readers and decide on the appropriate level of Honors. The Honors Director will attempt to maintain uniform standards, and is not constrained by the recommendations of the readers. Based on LSA guidelines, a determination of "No Honors," "Honors," "High Honors," or "Highest Honors" is made. This determination of an Honors designation must be completed prior to the actual awarding of the degree.

Students interested in the Psychology Department Honors Major should attend an informational session and review program details on the website prior to applying.

Psychology (Major) (Fall 2021 - Fall 2022)

Effective Fall 2021

Exclusions:

Students who elect a major in Psychology may not elect the Biopsychology, Cognition, and Neuroscience major.

Advising

Students choosing psychology as a field of the major develop an approved plan for the major with a department advisor. Students then assume responsibility for completing their program of study or for making revisions which will not jeopardize their graduation. Students are, however, encouraged to consult a department advisor at any time. A department advisor must approve the original plan for the major and any exceptions to the stated requirements for the major. Students should also consult a department advisor when planning the final term's elections to ensure that all requirements for the major have been met and to secure an advisor's approval on a Major

Release form. Appointments for students are scheduled at 1343 East Hall or online through the **Department website**.

Peer Advising

Advising by Undergraduate Psychology Academic Peer Advising Program students is available at 1343 East Hall during the fall and winter terms.

Grade Policies

Credit/No-credit courses may be used toward the Lab requirement, but will not count toward the total number of psychology credits required for major. A total of six credits of Psychology letter-graded Experiential lab (community or research-based courses) may be counted towards the Psychology major.

Prerequisites

- an introductory course (PSYCH 111, 112, or 114) with a "C" or better
- STATS 250 or 280 with a "C-" or better

Requirements

Minimum Credits: 32

A minimum of 40 credits, including the prerequisites and courses within the major. At least two courses must be taken at the 300-level.

1. Breadth Requirement: One course from each of three breadth groups

- Group I: PSYCH 220 or 235 or 240
- Group II: PSYCH 250 or 270
- Group III: PSYCH 280 or 290 or 291

2. Lab Requirement: To meet the lab requirement, students may complete either:

- two (at least 3 credits each) courses from the list of Methods-based Lab courses;
- one (at least 3 credits) course from the list of Methods-based Lab courses and one (at least 3 credits) course from the list of Experiential Lab courses (i.e., Community-based or Research-based); or
- the Psychology Thesis Research sequence (at least 6 credits total)

Methods-Based Lab Courses: PSYCH 300 (*if taken FA22 or later*), 301 (*if taken FA22 or later*), 302, 303, 331/332, 341, 342 (*if taken FA22 or later*), 351, 361, 371, 381, 383, 391, 422, 423, 426, 429, 451, 457 *section titled "Developmental Methods" or "Research Methods in Educational and Cross Cultural Settings"*.

Experiential Lab Courses: (3 credits minimum to satisfy requirement):

- Community-based Lab Courses: PSYCH 211, 304, 305, 306, 307, 308, 310, 311, 317, 319, 324, 325, 404, 405, 485;
- Research-based Lab Courses: PSYCH 226, 322, 323, 326, 327, 422, 423, 424, 428

A total of six credits of Psychology letter-graded Experiential lab (community or research-based courses) may be counted towards the Psychology major.

Thesis Research Sequence: Honors - PSYCH 424 & 426; non-Honors - Psych 428 & 429

A minimum of three credits of Research-based courses must be taken in a single academic term to satisfy the Psychology Lab requirement. Students wishing to pursue the Psychology Honors Research Major should acquire research and statistical skills early in their major before applying.

3. **Electives:** Additional 300- and 400-level Courses for the major.

The remainder of the major is filled by at least four upper-level Psych lecture or seminar courses for a minimum of 12 credits:

- at least two of the courses must be at the 300-level (PSYCH 225 or COGSCI 200 may be substituted for one of these courses)
- at least one of the courses must be at the 400-level

Constraints

Student double majoring in Psychology and Neuroscience may share a maximum of 3 courses toward their two programs.

Residency

Of the 40 overall credits (pre-requisites and courses for the major), 24 must be completed in-residence (AA Campus Department of Psychology and U-M Study Abroad). Of these 24 credits, 12 credits must be upper-division (300 or above).

Distribution Policy

No course used to fulfill a major requirement may be used toward the **LSA Distribution Requirement**. In addition, courses in the PSYCH subject area may not be used toward the Distribution Requirement.

Honors

The Honors Major in Psychology and in Biopsychology, Cognition, and Neuroscience

Psychology and Biopsychology, Cognition, and Neuroscience students with strong academic records and an interest in research are encouraged to consider participating in the Honors Major. The Honors Major is designed to enable advanced students to gain experience in design, conduct, and analysis of research studies. Students experience an intensive collaboration with a faculty member, and complete a significant effort to create new scientific knowledge. The Honors Major can serve as a capstone for their undergraduate studies, and as important preparation for graduate training or employment in a variety of fields.

1. **Requirements.** In addition to completing all the requirements for the major, an Honors degree designation requires having and maintaining a cumulative GPA of at least 3.4, participation in two terms of independent study Honors courses, presenting in the Annual Research Forum, and the completion and acceptance of a written thesis describing an original research project conducted in collaboration with a faculty mentor.
2. **Faculty Partnership.** Students wishing to pursue Honors should explore their interests in research and statistics early in their academic career. The student must then identify a faculty research mentor to work in partnership on an Honors project. The research mentor can be any faculty member or research scientist holding a faculty appointment in the University. Students must have one mentor from the Psychology Department. With the mentor as a collaborator, the student will prepare a project plan and timeline for

- completion. Application deadlines are posted on the Psychology Honors website.
3. **Admission to the Honors Major.** A student and their faculty research mentor must apply together for admission to the Honors Major; this includes an application and research proposal. Students are encouraged to apply the semester before their final year at the university (i.e., the end of their Junior year) to begin the Fall term of their Senior year.
 4. **Courses.** Once accepted into the Honors Major, Psych and BCN majors will be issued overrides for PSYCH 424 for the first semester of their thesis, and PSYCH 426 in their final semester. The Honors courses are graded and may be used towards the lab requirements (PSYCH 424 = experiential/research lab; PSYCH 426 = methods lab) when taken for the appropriate number of credits (see Honors Major advisor for guidance). PSYCH 426 may satisfy the college upper-level writing requirement. Students may be required to take a Methods-based lab in addition to these courses, and are encouraged to meet with the Honors Major advisor to plan how each course will count toward their plan.
 5. **The Honors Thesis.** The required senior Honors thesis is a written report describing the design and execution of the research project conducted in collaboration with the faculty mentor. The thesis will be due one calendar month before the anticipated graduation date. All Honors theses must be prepared in American Psychological Association (APA) format, and typically run 30-40 double-spaced pages in length. One electronic and hard copy of the thesis and a submission form must be submitted.
 6. **Evaluation of Thesis.** The thesis will be evaluated by two-three readers: the mentor, an outside reader (a faculty member not involved in the research project), and a possibly representative of the Honors Major. Students and mentors are responsible for suggesting a second reader prior to submitting their application. The reports of all readers will address the quality of the science reported in the thesis, as well as the quality of the written presentation. The report of the mentor will also address the role the student played in the design, execution, and interpretation of the experiments reported in the thesis, and should point out the role played by others on the project. The Honors Director will then meet to review the recommendations of the readers and decide on the appropriate level of Honors. The Honors Director will attempt to maintain uniform standards, and is not constrained by the recommendations of the readers. Based on LSA guidelines, a determination of "No Honors," "Honors," "High Honors," or "Highest Honors" is made. This determination of an Honors designation must be completed prior to the actual awarding of the degree.

Students interested in the Psychology Department Honors Major should attend an informational session and review program details on the website prior to applying.

Public Policy Minor

Our newly-launched minor in public policy is a competitive-admissions program designed to make the critical thinking and analytical skills taught at the Ford School available to more Michigan undergraduates.

Students enrolled in the minor will learn to design and analyze public policies using a range of social science perspectives; think critically, and write and communicate clearly about policy issues; engage on social issues with people from diverse backgrounds and design policy solutions from diverse perspectives; and productively participate in debates about social

problems and potential policy solutions.

The minor has a **competitive application process open from April 1 – May 1**, and consists of an online form, resume, transcript, and two short essays (300 words each). The school expects to enroll around 25 students each year. There are **no course prerequisites** to apply to the minor.

Students in LSA, the College of Engineering, the Ross School of Business, the School of Information, the School of Public Health, the Taubman College of Architecture & Urban Planning, the School of Kinesiology, the School of Education, the School of Music, Theatre & Dance, and the School of Nursing—and have sophomore or junior status at the time of application—are eligible to apply, including students who applied for the Ford School’s BA in public policy but were not admitted. All applicants will be notified of the minor admission decision by the end of May.

More information

For prospective students, please use this **calendar** to schedule appointments with our admissions team or **select a time** to meet with Christian, our BA Admissions & Recruiting Ambassador, and address any questions regarding the Ford School, the BA Program, and/or the Minor in Public Policy. If these times do not fit your schedule, please feel free to email **fspp-admissions@umich.edu** to set up an alternative time with Christian.

Quantitative Methods in the Social Sciences

Because humans are complex, the questions that are asked and the data that are gathered are also complex. For decades social scientists have gathered data by using surveys, interviews, observations, and experiments. The resulting data reflected choices within the control of the researcher. Now, data are increasingly being generated without any researcher intervention. Our world is full of data coming from multiple types of devices, interaction with applications on these devices, digitized documents, and much more.

The **Quantitative Methods in the Social Sciences (QMSS) program** seeks to unite Michigan’s excellence in social science with the current revolution in the data science.

The minor in Quantitative Methods in the Social Sciences will train the next generation of social scientists in the methods needed to harness all types of quantitative data in order to generate new insights and solutions to the problems of today and tomorrow.

A minor in QMSS will deepen the knowledge and skills for a broadly diverse group of students to work in the rapidly changing environment of the analysis of human data. Existing programs focus on computational methods, big data, data management etc. While QMSS is acutely aware of the need for skills in those domains, the foundational courses focus on a) social science applications (understanding human behavior and beliefs through data analysis, solving societal problems) and b) the particular strengths and needs of students in the social sciences, who often select a topic area (inequality) or discipline (psychology) rather than a methodology or a particular mathematical skillset when they select their major.

Further, students interested in social science research are often asked to take long lists of prerequisites with content they won't need before they can take the "useful" courses that exist in computer science and related disciplines. To teach these methods for social science students, QMSS has flipped the curriculum so that students are learning material relevant to them and this material is grounded in / connected to their interests. This leads to increased engagement with the curriculum and a strong understanding of its application to the real world - and their future job prospects. Likewise, the QMSS minor will benefit students with advanced technical and mathematical skills who are interested in majors in the social sciences and need courses like these to help them reason through the application of their tools to social questions.

Effective Winter 2022

Advising

Students wishing to pursue a minor in Quantitative Methods in the Social Sciences must develop a specific plan for its completion in consultation with one of the department's designated advisors.

Advising Appointments are available online through the LSA Advising Appointment System here: <https://myadvising.lsa.umich.edu/appointments/offices/QMSS>

Information about minor requirements and course offerings are available on the QMSS website: <https://lsa.umich.edu/qmss>.

Grade Policies

A student must earn an overall GPA of at least 2.0 in courses taken in the minor, including required courses, electives and the capstone course.

The QMSS program is investing heavily in resources to help students achieve success. Program faculty are dedicated to providing individualized assistance to declared minors and students enrolled in the program's core courses with both course concepts and student research projects - in the capstone course as well as self-directed research endeavors.

Prerequisites

The core courses for the QMSS minor do not require any external prerequisite courses. The foundational courses will introduce students to quantitative methods in data analysis and are intentionally designed so that they are accessible to students who have not yet taken college-level statistics courses, and/or have not completed the requirements for their own social science major/minor. This minor is designed to complement, not replace, statistical and methodological training in each of the social science disciplines.

Requirements

Minimum Credits: 17

Core Courses (8 credits):

1. QMSS 201: Intro to Quantitative Methods in the Social Sciences (4 credits)
2. QMSS 301: Quantitative Social Science Analysis and Big Data (4 credits)

Electives (6 credits):

As an interdisciplinary major focused on the social sciences, in addition to the required courses, the minor includes 6 elective credits of social science courses with significant instruction in quantitative methods, quantitative reasoning, experiment design, and data analysis. It is expected that one of these courses will be within the student's major, and the course credits can be counted both towards their major and the QMSS minor. The second elective should normally come from another social science discipline, reinforcing the interdisciplinary intent of the minor. A list of courses that will have automatic approval as electives for the QMSS minor appears below. The program assumes that there will be new courses developed and topics courses regularly offered in LSA social science departments as well as interdisciplinary programs on campus that will meet these requirements. QMSS program advisors will review and approve these courses by student request. QMSS program advisors will also evaluate and approve courses submitted for transfer credit and study abroad credit that meet these requirements as electives.

LIST OF AUTOMATICALLY APPROVED ELECTIVE COURSES, BY SOCIAL SCIENCE DEPARTMENT

- Anthropology | ANTHRBIO 463 / PSYCH 463 / ENVIRON 473: Statistical modeling and data visualization in R (4)
- Business | TO 301: Business Analytics and Statistics (*elected FA22 or after*)
- Communication and Media | COMM 221: Quantitative Skills for Communication Studies (4)
- Complex Systems | CMPLXSYS 251 / SOC 251: Computational Social Sciences (4)
- Economics | ECON 251: Introduction to Statistics and Econometrics II (4); ECON 258: Topics in Applied Data Analysis (3); ECON 259: Excel in Economics and Business Analytics (3); ECON 309: Experimental Economics (3); ECON 327: Economics of Crime (3); ECON 401: Intermediate Microeconomic Theory (4); ECON 402: Intermediate Macroeconomic Theory (4); ECON 451: Intermediate Introduction to Statistics and Econometrics (4)
- Environment | ENVIRON 403: Introduction to GIS in the Earth Sciences (3); ENVIRON 411: Principles of Geographic Information Systems (3)
- Kinesiology | SM 249: Research Methodology in Sport Management (*elected FA22 or after*)
- Linguistics | LING 394: Topics in Linguistics, *section titled "Speech Errors"* (3); LING 412: Speech Perception (3)
- Organizational Studies | ORGSTUDY 410: Advanced Research Methods in Organizational Studies (4)
- Political Science | POLSCI 300: Quantitative Empirical Methods of Political Science (4); POLSCI 373: Data Science for International Studies (3); POLSCI 381: Political Science Research Design *section titled "Research"* (3); POLSCI 387: Comparative Analysis of Government Institutions (3); POLSCI 391: Introduction to Modeling Political Processes (4); POLSCI 485: Elections Forensic (3); POLSCI 489: Advance Topics in Contemporary Political Science *section titled "Computational Political Science" or "Introduction to Computational Political Science"* (3); POLSCI 499: Survey Design and Analysis *section titled "Survey Design Analysis"* (4)
- Psychology | PSYCH 302: Research Methods in Cognitive Neuroscience (3); PSYCH 303: Research Methods in Psychology (3); PSYCH 341: Advanced Laboratory in Cognitive

Psychology (3); PSYCH 351: Advanced Laboratory in Developmental Psychology (3); PSYCH 371: Advanced Laboratory in Psychopathology (3); PSYCH 381: Advanced Laboratory in Social Psychology (3); PSYCH 448: Mathematical Psychology (3); PSYCH 463: Statistical Modeling and Data Visualization in R (4)

- Public Health | PUBHLTH 383: Data Driven solutions in Public Health (*elected FA22 or after*)
- Public Policy | PUBPOL 457: Data Visualization for Public Policy (*elected FA22 or after*); PUBPOL 479: Evaluating Public Policies (*elected FA22 or after*)
- Quantitative Methods in the Social Sciences | QMSS 295: Special Topics in Quantitative Methods in the Social Sciences (1-4); QMSS 495: Special Topics in Quantitative Methods in the Social Sciences (1-4)
- Residential College | RCSSCI 260: Theorizing Knowledge in the Social Sciences *section titled "Social Science Perspectives on the College Years"* (*elected FA22 or after*) (3)
- School of Information | SI 422: Needs Assessment and Usability Evaluation (*elected FA22 or after*)
- Sociology | SOC 210: Elementary Statistics (4); SOC 251 / CMPLXSYS 251: Computational Social Sciences (4); SOC 310: Sociological Research Methods (4); SOC 331: The Politics of Data (3); SOC 430: World Population Dynamics (3); SOC 472: Advanced Laboratory in Social Psychology (3)
- NOTE: Additional courses may be used to fulfill minor elective requirements with advisor approval.

Capstone Course (3 credits):

QMSS 451: Senior Capstone: Social Sciences Study Management (3 credits)

Residency

For completion of the minor, QMSS 201, 301, and 451 must be taken in residence on the Ann Arbor campus, or at off-campus sites directed by Ann Arbor faculty. This includes STDABRD, Camp Davis, Biological Station, Michigan-in-Washington.

Religion Minor

The Religion minor is an interdisciplinary minor housed in the History department, but is not a History minor.

We live in a world in which religion matters. Religious issues and conflicts dominate the headlines, from extraordinary acts of renewal to horrifying acts of destruction. Even in defining what religion is, and is not, proves a high-stakes challenge for institutions from the U.S. Supreme Court to the UN to local police or business owners.

The minor in Religion offers LSA students a rich and varied curriculum that provides the opportunity to explore the world's religions from antiquity to the present. Though the minor is housed in the History Department, it is designed to be a broad introduction to religion from many disciplinary angles and viewpoints.

We imagine the audience for our minor to be any LSA students interested in the phenomenon and the study of religion, whether it be from their own faith tradition, some other tradition, or the more general phenomenon of religion itself. Students interested in the humanities and social sciences, but also students of law, medicine, or business would benefit from this minor.

Effective Winter 2016

Advising

Appointments with History advisors are scheduled online from the department's webpage: www.lsa.umich.edu/history/undergraduate. Students should see an advisor as soon as they decide on their major or minor.

The History Department offers a three-tiered advising structure.

Tier 1: Faculty Advisors from the History Department's Undergraduate Committee

- declaring a history major - obtaining general advice about the nature, purpose, and utility of a history degree
- recommending a faculty mentor
- approving study abroad and transfer credit
- declaring an academic minor in History

To make an appointment, go to <http://www.lsa.umich.edu/history/undergraduate/advising>.

Tier 2: The Assistant Director of Undergraduate Studies

- obtaining general advice about the requirements for the major
- checking progress towards the major or minor
- completing the graduation checklist and release

To make an appointment, go to <http://www.lsa.umich.edu/history/undergraduate/advising>.

Tier 3: Individual Faculty Mentors

- obtaining approval for a survey sequence and a major theme
- getting advice about course selection
- obtaining advice about career planning

Students generally meet with a Tier 2 advisor for help in selecting a mentor, but all subsequent advising will be done by that individual professor.

Faculty who go on leave will designate a substitute, and inform all their mentees of the temporary change.

Students must arrange appointments directly with their mentors, and are expected to do so at least once a term. It is the student's responsibility to take the initiative in setting up these meetings.

Prerequisites

None.

Requirements

Minimum Credits: 15

A minimum of 5 courses and 15 credits, distributed as follows

1. **Core Course.** HISTORY 105: Introduction to Religion.
2. **Additional Courses.** Four additional courses (at least 12 credits), to be chosen in consultation with a faculty advisor.
 - At least two of these four courses must be at the 300-level or higher.
 - The four courses must cover at least two of the following religious traditions or philosophical traditions – Buddhism [BUD]; Christianity [CHR]; Comparative [COMP]; Hinduism [HIN]; Islam [ISLM]; Judaism [JUD] – or another religious tradition approved by a faculty advisor.
 - All four courses must be from the approved list of courses that count for the Religion minor.

Courses Approved for Religion Minor

History

HISTORY / INTLSTD / RELIGION 209: Death, Immortality, and Afterlife (*only if elected FA19 or later*) [COMP]

HISTORY / MEMS 210: Early Medieval Europe [CHR]

HISTORY / MEMS 213: The Reformation [CHR]

HISTORY 222 / JUDAIC / WGS 224 (WOMENSTD 224): Sex and Sexuality in Jewish History and Culture (F18)

HISTORY 230: Humanities Topics in History, *sections titled “Angels and Demons in Early Christianity” or “The Bible in History”* [COMP] or *“Islam in History”* [COMP] (*only if elected WN21 or later*)

HISTORY / MENAS 243: The Dawn of Islamic History [ISLM]

HISTORY 244 / MIDEAST 284 / JUDAIC 244 / MENAS 244. The History of the Arab-Israeli Conflict [COMP]

HISTORY / AAS 245: Islam in Africa [ISLM]

HISTORY / ASIAN / RELIGION 248: Jesus Comes to Asia [CHR]

HISTORY / MEMS 253: Europe, 300-1648: The Rise and Fall of the Middle Ages (*only if elected FA19 or later*) [CHR]

HISTORY / JUDAIC 265: Intro to Jewish Law [JUD]

HISTORY 259 / MIDEAST 339 / RELIGION 358: Israel Before the Exile: Its History & Religion [JUD]

HISTORY / AMCULT / AAS 267. Religion in the Making of African America [COMP]

HISTORY 269 / JUDAIC / RELIGION 260: Introduction to the Talmud and the Rabbis [JUD]

HISTORY / AMCULT 270: Religion in America [COMP]

HISTORY / RELIGION 271 / ANTHRCUL 221: Religions of Latin America [COMP]

HISTORY / RELIGION 286: A History of Eastern Christianity from the 4th to the 18th Century [CHR]

HISTORY 287: Horror and Enchantment: A History of the Spanish and Portuguese Early Modern World (*only if elected WN20 or later*) [COMP]

HISTORY / JUDAIC 290 / MIDEAST 287: Jews and Muslims [COMP]

HISTORY 291: A World History of Happiness: Care of the Self from the Greeks to the Sufis (*only if elected WN20 or later*) [COMP]

HISTORY / CLCIV / WGS 303 (WOMENSTD 303): Women in the Ancient Mediterranean [COMP]

HISTORY 304: Interdisciplinary Topics in History, *section titled "Magic, Mystery, and Religion in the Hellenistic World"* (only if elected FA19 or later) [COMP]
 HISTORY 308 / ASIAN / RELIGION 307: Eat, Pray, Love: Devotional Traditions in South Asia [COMP]
 HISTORY / MEMS / WGS 316 (WOMENSTD 316): Medieval Women [CHR]
 HISTORY 324: Muslims in Contemporary Europe [ISLM]
 HISTORY / RELIGION 325 / MIDEAST 375 / MEMS 325 / ASIAN 324: The History of Islam in South Asia [ISLM]
 HISTORY 328: Humanities Topics in History, *sections titled "The Bible in the 19th Century"* or *"Ancient Judaism: Law, Religion, History"* [JUD]
 HISTORY 350 / JUDAIC / HISTART 323 / MIDEAST 383 / RELIGION 324: History of Jewish Visual Culture: From Ancient Mosaics to Jew-Hop Videos [JUD]
 HISTORY 357: Topics in African History, *section titled "Islam in Africa"* [ISLM]
 HISTORY 358: Religion, Magic, and Mystery After Alexander (only if elected WN21 or later)
 HISTORY 381 / CLCIV / JUDAIC 380 / RELIGION 382: The Beginnings of Judaism: From Ethnicity to Religion [JUD]
 HISTORY / JUDAIC / AMCULT 387: History of American Jews [JUD]
 HISTORY 390: Topics in History, *section titled "Islam and the West"* [ISLM]
 HISTORY / AAS / LACS / RELIGION 421: Religions of the African Diaspora [COMP]
 HISTORY 427: Magic, Religion, and Science in Early Modern England (only if elected FA17 or later) [ISLM]
 HISTORY 428 / MIDEAST 413. The Rise of Islam [ISLM]
 HISTORY 442 / MIDEAST 417: The First Millennium of the Islamic Near East [ISLM]
 HISTORY 445: Topics in History, *section titled "American Jews & Social Justice in the U.S."* [JUD] or *section titled "Ancient Greek Religion"* (only if elected FA19 or later) [COMP]
 HISTORY 470 / ASIAN / RELIGION 464: From Mystic Saints to Holy Warriors: Islam in Southeast Asia [ISLM]
 HISTORY 481: Topics in European History, *section titled "Spirituality & Madness: Religious Women"* [CHR]
 HISTORY 487: Conversations and Christianities in the Early Modern World and Beyond [CHR]
 HISTORY 489: Roman Catholicism and the Modern World [CHR]
 HISTORY 497: History Colloquium, *section titled "Crusade and Jihad"* [COMP]

African and African American Studies

AAS 206: Issues in African Studies: African Christianities [CHR]
 AAS / HISTORY 245: Islam in Africa [ISLM]
 AAS / HISTORY / AMCULT 267. Religion in the Making of African America [COMP]
 AAS 358: Topics in Black World Studies, *section titled "Urban Religion in the African Diaspora"* [COMP]
 AAS / HISTORY / LACS / RELIGION 421: Religions of the African Diaspora [COMP]

American Culture

AMCULT / HISTORY / AAS 267. Religion in the Making of African America [COMP]
 AMCULT / HISTORY 270: Religion in America [COMP]
 AMCULT: Topics in American Culture, *section titled "Islam in America"* [ISLM] (F17)

AMCULT HISTORY / JUDAIC 387: History of American Jews [COMP]
ARABAM 301: Topics in Arab American Studies, *section titled "Islam in/and America"* [ISLM] (F17)

Anthropology

ANTHRCUL 221 / HISTORY / RELIGION 271: Religions of Latin America [COMP]
ANTHRCUL / RELIGION 246: Anthropology of Religion [COMP]

Asian Languages and Cultures

ASIAN 220 / RELIGION 202: Introduction to the Study of Asian Religions [COMP]
ASIAN / RELIGION 223: Krishna Speaks: Bhagavad-Gita [HIN]
ASIAN / RELIGION 225: Introduction to Hinduism [HIN]
ASIAN / PHIL 230 / RELIGION 230: Introduction to Buddhism [BUD]
ASIAN / RELIGION 231: Introduction to Tibetan Buddhism [BUD]
ASIAN / RELIGION 234: Buddhism and Death [BUD]
ASIAN / HISTORY / RELIGION 248: Jesus Comes to Asia [CHR]
ASIAN / RELIGION 272: Introduction to the Study of Korean Religions [COMP]
ASIAN / RELIGION 303: Religious Military Orders of the World [COMP]
ASIAN / HISTART 304: The Art of Yoga [BUD]
ASIAN / RELIGION 305: Religion and Violence in the Secular World [COMP]
ASIAN / RELIGION 306: What is Religion? [COMP]
ASIAN 307 / HISTORY 308: Eat, Pray, Love: Devotional Traditions in South Asia [COMP]
ASIAN 324 / HISTORY / MIDEAST 375 / MEMS / RELIGION 325 /: The History of Islam in South Asia [ISLM]
ASIAN 325 / RELIGION 323: Zen: History, Culture, and Critique [BUD]
ASIAN 326: Introduction to Japanese Buddhism [BUD]
ASIAN 329: Violence and Nonviolence in the Buddhist Traditions of Asia [BUD]
ASIAN / PHIL / RELIGION 331: Introduction to Indian Philosophy [COMP]
ASIAN 333: Sacred Collectives: Nation and Religion in South Asia [COMP]
ASIAN 335/ HISTART 305: Himalayas: An Aesthetic Experience [COMP]
ASIAN 350 / RELIGION 351. Gods, Ghosts, and Gangsters: Popular Religion [COMP]
ASIAN 430: Philosophy of the Sikh Gurus [COMP]
ASIAN / RELIGION / HISTORY 470: From Mystic Saints to Holy Warriors: Islam in Southeast Asia [ISLM]

Classical Studies

CLCIV 303 / HISTORY 303 / WOMENSTD 303. Women in the Ancient Mediterranean [COMP]
CLCIV 347 / RELIGION 347: Roman Religion from the Archaic Period to Late Antiquity [COMP]
CLCIV 380 / HISTORY 381 / JUDAIC 380 / RELIGION 382: The Beginnings of Judaism: From Ethnicity to Religion [JUD]
CLCIV 446. Greek Religion [COMP]
GREEK 307 / ACABS 307: The Synoptic Gospels: Matthew, Mark and Luke (requires two terms of Greek) [CHR]

English

*ENGLISH 258 / RELIGION 258: The Bible as Literature [COMP]

ENGLISH 398: Junior Seminar in English Studies, *section titled "New English Literature in the Age of Chaucer"* [CHR]

ENGLISH 415 / WOMENSTD 414: Studies in Women and Literature: Early Women Writers [CHR]

ENGLISH 469: Milton [CHR]

Germanic Languages and Literatures

GERMAN 460: Europe's Islam: From Dante to Rushdie [ISLM]

Greek

GREEK 307 / MELANG 307: The Synoptic Gospels: Matthew, Mark and Luke (requires two terms of Greek) [CHR]

History of Art

HISTART 285 / MIDEAST 285: Visual Culture Islam [ISLM]

HISTART 304 / ASIAN 304: The Art of Yoga [BUD]

HISTART 305 / ASIAN 335: Himalayas: An Aesthetic Experience [COMP]

HISTART 323 / HISTORY 350 / JUDAIC 323 / MIDEAST 383 / RELIGION 324: History of Jewish Visual Culture: From Ancient Mosaics to Jew-Hop Videos [JUD]

HISTART 351: The Art and Poetry of Michelangelo [CHR]

HISTART 355 / MEMS 355: The Miraculous and the Diabolical in Late Medieval and Early Modern European Visual Culture [CHR]

International Studies

INTLSTD / HISTORY / RELIGION 209: Death, Immortality, and Afterlife (*only if elected FA19 or later*) [COMP]

Judaic Studies

JUDAIC 205 / MIDEAST 276: What is Judaism? [JUD]

JUDAIC / WOMENSTD 224 / HISTORY 222: Sex and Sexuality in Jewish History and Culture (F18)

JUDAIC 244 / HISTORY 244 / MIDEAST 284 / MENAS 244: The History of the Arab-Israeli Conflict [JUD]

JUDAIC 260 / HISTORY 269 / RELIGION 260: Introduction to the Talmud and the Rabbis [JUD]

JUDAIC 265 / HISTORY 256: Intro to Jewish Law [JUD]

JUDAIC 290 / HISTORY 290: Jews and Muslims [JUD]

JUDAIC 318. Humanities Topics in Judaism, *section titled "History and Religion of Ancient Judaism"* [JUD]

JUDAIC 323 / HISTORY 350 / HISTART 323 / MIDEAST 383 / RELIGION 324: History of Jewish Visual Culture: From Ancient Mosaics to Jew-Hop Videos [JUD]

JUDAIC 360: A Global History of the Jews of Spain [JUD]

JUDAIC 376 / WOMENSTD 376: Women and the Bible [JUD]

JUDAIC 380 / HISTORY 381 / CLCIV 380 / RELIGION 382: The Beginnings of Judaism: From Ethnicity to Religion [JUD]

JUDAIC 387 / HISTORY 387 / AMCULT 387: History of American Jews [JUD]
JUDAIC 410 / SOC 410: Sociology of the American Jewish Community [JUD]
JUDAIC 451 / POLSCI 350: The Politics and Culture of Modern East European Jewry [JUD]
JUDAIC 468 / MIDEAST 456 / RELIGION 469: Jewish Mysticism [JUD]

Latin American and Caribbean Studies

LACS 421 / HISTORY 421 / AAS 421 / RELIGION 421: Religions of the African Diaspora [COMP]

Medieval and Early Modern Studies

MEMS 213 / HISTORY 213: The Reformation [CHR]
MEMS / HISTORY 253: Europe, 300-1648: The Rise and Fall of the Middle Ages (only if elected FA19 or later) [CHR]
MEMS 325 / ASIAN 324 / HISTORY 325 / MIDEAST 375 / RELIGION 325: The History of Islam in South Asia [ISLM]
MEMS 355 / HISTART 355: The Miraculous and the Diabolical in Late Medieval and Early Modern European Visual Culture [CHR]

Middle Eastern and North African Studies

MENAS 243 / HISTORY 243: The Dawn of Islamic History [ISLM]
MENAS 244 / HISTORY 244 / MIDEAST 284 / JUDAIC 244: The History of the Arab-Israeli Conflict [COMP]

Middle Eastern Studies

MIDEAST 202 / RELIGION 201: Introduction to World Religions: Near Eastern [COMP]
MIDEAST 216 / RELIGION 204: Introduction to Islam [ISLM]
MIDEAST 235 / RELIGION 121: Introduction to the Tanakh/Old Testament [JUD]
MIDEAST 236 / RELIGION 122: Introduction to the New Testament [CHR]
*MIDEAST 238 / RELIGION 280: The Historical Jesus in Christianity, Judaism, and Islam [COMP]
MIDEAST 240: Ancient Egypt: Religion and Culture [COMP]
MIDEAST 242 / RELIGION 270: Introduction to Rabbinic Literature [JUD]
MIDEAST 276 / JUDAIC 205: What is Judaism? [JUD]
MIDEAST 284 / HISTORY 244 / JUDAIC 244 / MENAS 244: The History of the Arab-Israeli Conflict [COMP]
MIDEAST 285 / HISTART 285: Visual Culture Islam [ISLM]
MIDEAST 295. First Year Seminar in Near Eastern Studies, *section titled "The Dead Sea Scrolls for the 21st Century"* [JUD]
MIDEAST / ISLAM / MEMS / REEES / RELIGION 318: The Church of Armenia: Profile of a National Institution [CHR]
MIDEAST 321: Jihad in History [ISLM]
MIDEAST 322 / RELIGION 363: The Qur'an and its Interpretations [ISLM]
MIDEAST 323: The Prophet Muhammad in Islam [ISLM]
MIDEAST 335 / RELIGION 359: History and Religion of Ancient Judaism [JUD]
MIDEAST 336 / RELIGION 350: Early Christianity, 50-650 CE [CHR]
MIDEAST 339 / RELIGION 358: Israel Before the Exile (587 BCE): Its History & Religion

[JUD]

MIDEAST 375 / MEMS 325 / HISTORY 325 / RELIGION 325 / ASIAN 324: The History of Islam in South Asia [ISLM]

MIDEAST 383 / HISTORY 350 / HISTART 323 / JUDAIC 323 / RELIGION 324: History of Jewish Visual Culture: From Ancient Mosaics to Jew-Hop Videos [JUD]

MIDEAST 413 / HISTORY 428. The Rise of Islam [ISLM]

MIDEAST 417 / HISTORY 442: The First Millennium of the Islamic Near East [ISLM]

MIDEAST 421 / RELIGION 465: Islamic Mysticism [ISLM]

MIDEAST 456 / JUDAIC 468 / RELIGION 469: Jewish Mysticism [JUD]

MIDEAST 520: Readings in Classical Islamic Texts (*requires 6th-term proficiency in Arabic*) [ISLM]

MELANG 307 / GREEK 307: The Synoptic Gospels: Matthew, Mark and Luke (requires two terms of Greek) [CHR]

Philosophy

PHIL 230 / ASIAN 230 / RELIGION 230: Introduction to Buddhism [BUD]

PHIL 262 / RELIGION 262: Intro to the Philosophy of Religion [COMP]

PHIL 331 / ASIAN 331 / RELIGION 331: Introduction to Indian Philosophy [COMP]

PHIL 480: Philosophy of Religion [COMP]

Political Science

POLSCI 350 / JUDAIC 451: The Politics and Culture of Modern East European Jewry [JUD]

Religion

RELIGION 202 / ASIAN 220: Introduction to the Study of Asian Religions [COMP]

RELIGION 204 / MIDEAST 216: Introduction to Islam [ISLM]

RELIGION / HISTORY / INTLSTD 209: Death, Immortality, and Afterlife (*only if elected FA19 or later*) [COMP]

RELIGION 223 / ASIAN 223: Krishna Speaks: Bhagavad-Gita [HIN]

RELIGION 225 / ASIAN 225: Introduction to Hinduism [HIN]

RELIGION 230 / PHIL 230 / ASIAN 230: Introduction to Buddhism [BUD]

RELIGION 231 / ASIAN 231: Introduction to Tibetan Buddhism [BUD]

RELIGION 234 / ASIAN 234: Buddhism and Death [BUD]

RELIGION 235 / MIDEAST 235: Introduction to the Tanakh/Old Testament [JUD]

RELIGION 236 / MIDEAST 236: Introduction to the New Testament [CHR]

RELIGION 246 / ANTHRCUL 246: Anthropology of Religion [COMP]

RELIGION 248 / HISTORY 248 / ASIAN 248: Jesus Comes to Asia [CHR]

*RELIGION 258 / ENGLISH 258 / JUDAIC 258: The Bible as Literature [COMP]

RELIGION 260 / JUDAIC 260 / HISTORY 269: Introduction to the Talmud and the Rabbis [JUD]

RELIGION 262 / PHIL 262: Intro to the Philosophy of Religion [COMP]

RELIGION 270 / MIDEAST 242: Introduction to Rabbinic Literature [JUD]

RELIGION 271 / HISTORY 271 / ANTHRCUL 221: Religions of Latin America [COMP]

RELIGION 272 / ASIAN 272: Introduction to the Study of Korean Religions [COMP]

*RELIGION 280 / MIDEAST 238: The Historical Jesus in Christianity, Judaism and Islam [COMP]

RELIGION 286 / HISTORY 286: A History of Eastern Christianity from the 4th to the 18th Century [CHR]
 RELIGION 303 / ASIAN 303: Religious Military Orders of the World [COMP]
 RELIGION 305 / ASIAN 305: Religion and Violence in the Secular World [COMP]
 RELIGION 306 / ASIAN 306: What is Religion? [COMP]
 RELIGION 307 / ASIAN 307 / HISTORY 308: Eat, Pray, Love: Devotional Traditions in South Asia [COMP]
 RELIGION 323 / ASIAN 325: Zen: History, Culture, and Critique [BUD]
 RELIGION 324/ HISTORY 350 / HISTART 323 / JUDAIC 323 / MIDEAST 383: History of Jewish Visual Culture: From Ancient Mosaics to Jew-Hop Videos [JUD]
 RELIGION 325 / HISTORY 325 / MIDEAST 375 / MEMS 325 / ASIAN 324: The History of Islam in South Asia [ISLM]
 RELIGION 331 / ASIAN 331 / PHIL 331: Introduction to Indian Philosophy [COMP]
 RELIGION 347 / CLCIV 347: Roman Religion from the Archaic Period to Late Antiquity [COMP]
 RELIGION 350 / MIDEAST 336: Early Christianity, 50-650 CE [CHR]
 RELIGION 351 / ASIAN 350. Gods, Ghosts, and Gangsters: Popular Religion in China [COMP]
 RELIGION 358 / MIDEAST 339. Israel Before the Exile: Its History & Religion [JUD]
 RELIGION 359 / MIDEAST 335 / JUDAIC 318: History and Religion of Ancient Judaism [JUD]
 RELIGION 360 / RCHUMS 365: Experiences of Atheism: A History of Skepticism [COMP]
 RELIGION 363 / MIDEAST 322: The Qur'an and its Interpretations [ISLM]
 RELIGION 382 / HISTORY 381 / CLCIV 380 / JUDAIC 380: The Beginnings of Judaism: From Ethnicity to Religion [JUD]
 RELIGION 421/ HISTORY 421 / AAS 421 / LACS 421: Religions of the African Diaspora [COMP]
 RELIGION 455 / SOC 455: Religion and Society [COMP]
 RELIGION 464 / ASIAN 464 / HISTORY 470: From Mystic Saints to Holy Warriors: Islam in Southeast Asia [ISLM]
 RELIGION 465 / MIDEAST 421: Islamic Mysticism [ISLM]
 RELIGION 368 / CLCIV 466: Greek Religion [COMP]
 RELIGION 469 / MIDEAST 456 / JUDAIC 468: Jewish Mysticism [JUD]

Residential College

RCHUMS 334: Special Topics in the Humanities, *section titled, "Death in the Western Imagination" (only if elected WN 20 or later)* [CHR]
 RCHUMS 365 / RELIGION 360: Experiences of Atheism: A History of Skepticism [COMP]

Russian, Eastern European, and Eurasian Studies

REES 490 / SOC 490 / WOMENSTD 492: Women and Islam: A Sociological Perspective [ISLM]

Sociology

SOC 410 / JUDAIC 410: Sociology of the American Jewish Community [JUD]
 SOC 455 / RELIGION 455: Religion and Society [COMP]

SOC 490 / REEES 490 / WOMENSTD 492: Women and Islam: A Sociological Perspective [ISLM]

Women's Studies

WOMENSTD / JUDAIC 224 / HISTORY 222: Sex and Sexuality in Jewish History and Culture (F18)

WOMENSTD 303 / HISTORY 303 / CLCIV 303: Women in the Ancient Mediterranean [COMP]

WOMENSTD 376 / JUDAIC 376: Women and the Bible [JUD]

WOMENSTD 414 / ENGLISH 415: Studies in Women and Literature: Early Women Writers [CHR]

WOMENSTD 492 / SOC 490 / REEES 490: Women and Islam: A Sociological Perspective [ISLM]

**change in tradition*

Constraints

AP credit: AP credits may not be used to satisfy requirements of the minor.

Residency

Four of the five courses must be taken in-residence at the University of Michigan—Ann Arbor, or must count as in-residence credit (i.e., relevant courses taken through UM-sponsored CGIS programs abroad).

Romance Languages and Literatures Major

Majoring in Romance Languages and Literatures allows students to include more than one Romance language in a program of study that also encourages them to discover and to make connections between the Romance languages and cultures that they choose to pursue. All students should consult with a department advisor to develop a program of study that best corresponds to their interests and career plans.

Effective Winter 2023

Advising

The Department offers majors in French, Italian, Romance Languages & Literatures, and Spanish. It offers minors in French, Italian, Portuguese, and Spanish.

Appointments are scheduled **online** or at the department office, 4108 Modern Languages Building, (734) 764-5344.

Prerequisites

Same as those for majors in the individual languages:

- FRENCH 230 or 232 or RCLANG 290 or RCLANG 310 for students of French
- ITALIAN 230, 232, 233, or 410 for students of Italian
- PORTUG 232 or 280 for students of Portuguese

- SPANISH 277 or RCLANG 324 for students of Spanish

Requirements

Minimum Credits: 39

At least 39 credits consisting of the following:

I. A minimum of 33 credits of coursework from French, Italian, Portuguese, Spanish, or Catalan. All of these courses must be taught in the target language and must also be courses that would count toward the individual language majors and minors. Students will choose two principal Romance languages and take a minimum of 12 credits in each.

They have the option of taking up to 9 credits in a third romance language, or of taking the remainder of the 33 credits in their principal languages. In each of the two principal languages, 6 credits in upper-level coursework are required ("upper-level" means: 300 or above in French and Italian, 281 or above in Portuguese, 400 or above in Spanish and Catalan). Students can seek permission to advance more quickly to upper-level courses after completing:

- FRENCH 235 and one FRENCH 250-299 or the equivalent
- ITALIAN (any of the following) 230, 232, 233, or 410 or the equivalent
- PORTUGUESE (any of the following) 232, 280 or 281, or the equivalent
- SPANISH (two courses, six credits) at 279-399-level or the equivalent

II. One course (minimum 3 credits) in the linguistics of the Romance languages, preferably of a comparative nature.

III. ROMLANG 498, the upper-division Seminar in RLL.

The structure of requirement I enables students to choose between studying two or three languages, and between treating their languages more or less equally and having "primary" and "secondary" (and perhaps "tertiary") languages. Requirement II grounds the major in Romance Languages and Literatures in an understanding of the linguistics of the Romance languages. All RLL majors need to enroll in the upper-division seminar, RomLang 498, during either their junior or senior year. This seminar explores topics for which crossing boundaries among the Romance languages can provide productive avenues of inquiry. A major component of the senior seminar involves individual research projects tailored to each student's linguistic competences.

Other Department Policies

Study Abroad

Majors in Romance Languages and Literatures are encouraged to consider the possibility of **studying abroad** for at least one of their languages.

Residency

A minimum of 21 of the required 39 credits must be taken either in residence or through a study abroad program affiliated with the University of Michigan

Distribution Policy

No course used to fulfill a major requirement may be used toward the **LSA Distribution Requirement**. In addition, courses in the CATALAN, FRENCH, ITALIAN, PORTUG,

ROMLANG, ROMLING, and SPANISH subject areas may not be used toward the Distribution Requirement.

Honors

Romance Languages and Literatures

Qualified students may be admitted to a program of advanced study during their junior year (or at the beginning of the senior year following foreign study), leading to the degree of Bachelor of Arts with Honors in Romance Languages and Literatures. Admission to senior-level Honors work in Romance Languages and Literatures is by application only (forms are available on the department website at www.lsa.umich.edu/rll). A grade point average of at least 3.4 in all courses, as well as a 3.5 in all courses taken for the major, is required for admission and for graduation with Honors in Romance Languages and Literatures. The Curriculum Committee in Romance Languages and Literatures expects applicants to present evidence of superior language skills and a serious interest in comparative research involving both of their languages and the cultures articulated through them.

Romance Languages and Literatures Honors majors are required to complete 42 credits of coursework and successfully defend a thesis:

Course Requirements:

At least 42 credits consisting of the following:

I. A minimum of 30 credits of coursework in 2 languages (from French, Italian, Portuguese, Spanish, or Catalan) that meet the following qualifications:

- a minimum of 12 credits each in two Romance languages, including at least 6 credits each in upper-level courses ("upper-level" means: 300 or above in French and Italian, 281 or above in Portuguese, 400 or above in Spanish and Catalan), with an overall minimum of 15 credits from upper-level courses.
- All of these courses must be taught in the target language and must also be courses that would count toward the individual language majors.

II. One course (minimum 3 credits) in the linguistics of the Romance languages, preferably of a comparative nature.

III. ROMLANG 498, the upper-division Seminar in RLL.

IV. ROMLANG 491 and 492, Senior Honors Courses, normally taken in the fall and winter terms, respectively, of a student's senior year.

Thesis Requirement:

Composition of a thesis incorporating the results of individual research and demonstrating a substantial piece of work; and

A presentation and discussion of the thesis and of an agreed upon set of related readings with the student's faculty advisor and one other faculty reader.

Working under the direction of a faculty member who serves as thesis director, the student

will research the thesis, complete a bibliography and prospectus, and begin drafting the writing process while enrolled in ROMLANG 491. In the following academic term the student will enroll in ROMLANG 492 and complete the thesis and its presentation and discussion.

Teaching Certificate

By taking a number of courses in each language beyond the requirements for the major in Romance Languages and Literatures, students may qualify for teaching certification in both a major and a minor language. The exact requirements for certification are available at the following School of Education website: www.soe.umich.edu/file/tag/teacher+education/ Candidates for a secondary school teaching certificate should study the general information about teaching certificate requirements, which appears under the **Teacher Certification Program**, and contact the School of Education.

Romance Languages and Literatures (Major) (Fall 2022)

Effective Fall 2022

Advising

The Department offers majors in French, Italian, Romance Languages & Literatures, and Spanish. It offers minors in French, Italian, Portuguese, and Spanish.

Appointments are scheduled **online** or at the department office, 4108 Modern Languages Building, (734) 764-5344.

Prerequisites

Same as those for majors in the individual languages:

- FRENCH 230 or 232 or RCLANG 290 or RCLANG 310 for students of French
- ITALIAN 230, 232, 233, or 410 for students of Italian
- PORTUG 232 or 280 for students of Portuguese
- SPANISH 277 or RCLANG 324 for students of Spanish

Requirements

Minimum Credits: 39

At least 39 credits consisting of the following:

I. A minimum of 33 credits of coursework from French, Italian, Portuguese, Spanish, or Catalan. All of these courses must be taught in the target language and must also be courses that would count toward the individual language majors and minors. Students will choose two principal Romance languages and take a minimum of 12 credits in each.

They have the option of taking up to 9 credits in a third romance language, or of taking the remainder of the 33 credits in their principal languages. In each of the two principal languages, 6 credits in upper-level coursework are required ("upper-level" means: 300 or above in French and Italian, 287 or above in Portuguese, 400 or above in Spanish and Catalan). Students can seek permission to advance more quickly to upper-level courses after completing:

- FRENCH 235 and one FRENCH 250-299 or the equivalent

- ITALIAN (any of the following) 230, 232, 233, or 410 or the equivalent
- PORTUGUESE (any of the following) 232, 280 or 281, or the equivalent
- SPANISH (two courses, six credits) at 279-399-level or the equivalent

II. One course (minimum 3 credits) in the linguistics of the Romance languages, preferably of a comparative nature.

III. ROMLANG 498, the upper-division Seminar in RLL.

The structure of requirement I enables students to choose between studying two or three languages, and between treating their languages more or less equally and having "primary" and "secondary" (and perhaps "tertiary") languages. Requirement II grounds the major in Romance Languages and Literatures in an understanding of the linguistics of the Romance languages. All RLL majors need to enroll in the upper-division seminar, RomLang 498, during either their junior or senior year. This seminar explores topics for which crossing boundaries among the Romance languages can provide productive avenues of inquiry. A major component of the senior seminar involves individual research projects tailored to each student's linguistic competences.

Other Department Policies

Study Abroad

Majors in Romance Languages and Literatures are encouraged to consider the possibility of **studying abroad** for at least one of their languages.

Residency

A minimum of 21 of the required 39 credits must be taken either in residence or through a study abroad program affiliated with the University of Michigan

Distribution Policy

No course used to fulfill a major requirement may be used toward the **LSA Distribution Requirement**. In addition, courses in the CATALAN, FRENCH, ITALIAN, PORTUG, ROMLANG, ROMLING, and SPANISH subject areas may not be used toward the Distribution Requirement.

Honors

Romance Languages and Literatures

Qualified students may be admitted to a program of advanced study during their junior year (or at the beginning of the senior year following foreign study), leading to the degree of Bachelor of Arts with Honors in Romance Languages and Literatures. Admission to senior-level Honors work in Romance Languages and Literatures is by application only (forms are available on the department website at www.lsa.umich.edu/rll). A grade point average of at least 3.4 in all courses, as well as a 3.5 in all courses taken for the major, is required for admission and for graduation with Honors in Romance Languages and Literatures. The Curriculum Committee in Romance Languages and Literatures expects applicants to present evidence of superior language skills and a serious interest in comparative research involving both of their languages and the cultures articulated through them.

Romance Languages and Literatures Honors majors are required to complete 42 credits of coursework and successfully defend a thesis:

Course Requirements:

At least 42 credits consisting of the following:

I. A minimum of 30 credits of coursework in 2 languages (from French, Italian, Portuguese, Spanish, or Catalan) that meet the following qualifications:

- a minimum of 12 credits each in two Romance languages, including at least 6 credits each in upper-level courses ("upper-level" means: 300 or above in French and Italian, 287 or above in Portuguese, 400 or above in Spanish and Catalan), with an overall minimum of 15 credits from upper-level courses.
- All of these courses must be taught in the target language and must also be courses that would count toward the individual language majors.

II. One course (minimum 3 credits) in the linguistics of the Romance languages, preferably of a comparative nature.

III. ROMLANG 498, the upper-division Seminar in RLL.

IV. ROMLANG 491 and 492, Senior Honors Courses, normally taken in the fall and winter terms, respectively, of a student's senior year.

Thesis Requirement:

Composition of a thesis incorporating the results of individual research and demonstrating a substantial piece of work; and

A presentation and discussion of the thesis and of an agreed upon set of related readings with the student's faculty advisor and one other faculty reader.

Working under the direction of a faculty member who serves as thesis director, the student will research the thesis, complete a bibliography and prospectus, and begin drafting the writing process while enrolled in ROMLANG 491. In the following academic term the student will enroll in ROMLANG 492 and complete the thesis and its presentation and discussion.

Teaching Certificate

By taking a number of courses in each language beyond the requirements for the major in Romance Languages and Literatures, students may qualify for teaching certification in both a major and a minor language. The exact requirements for certification are available at the following School of Education website: www.soe.umich.edu/file/tag/teacher+education/ Candidates for a secondary school teaching certificate should study the general information about teaching certificate requirements, which appears under the **Teacher Certification Program**, and contact the School of Education.

Russian Major

The Russian major aims to combine, in the best traditions of a liberal arts degree, practical

language learning with the study of culture broadly understood. It provides extensive language training and demanding courses in literary history and analysis. Moreover, the Department firmly believes that serious language study offers broad intellectual benefits in and of itself. In the upper-level Russian language courses, it aims to develop linguistic self-consciousness and a basis for the study of linguistics proper. In literary studies many undergraduates take not only the required courses (both in translation and in Russian), but also elect more specialized courses such as "monograph" studies of Pushkin (RUSSIAN 461), Dostoevsky (RUSSIAN 462), Chekhov (RUSSIAN 463), and Tolstoy (RUSSIAN 464).

Russian is also an especially rewarding second major when combined with political science, history or another social-science discipline. Students who complete the intensive year-long language program in their first year are particularly well equipped to follow the dual-major path.

Effective Winter 2022

Advising

Professor Michael Makin, the undergraduate department advisor, should be consulted by prospective majors before the end of the sophomore year. Appointments are scheduled online at www.lsa.umich.edu/slavic/undergraduate/advising.

Prerequisites

Students have three possible ways to complete the Russian major program:

- a Russian Language and Literature track
- a Culture track
- a Heritage Speakers track

Russian Language and Literature track Prerequisites:

RUSSIAN 101, 102, 201, and 202, (or RUSSIAN 103 and 203 or RUSSIAN 123 and 223) or the equivalent. Interested students are advised to begin Russian during their first year.

Culture track Prerequisites:

RUSSIAN 101, 102, 201, and 202, (or RUSSIAN 103 and 203 or RUSSIAN 123 and 223) or the equivalent. Interested students are advised to begin Russian during their first year.

Heritage Speakers track Prerequisites:

RUSSIAN 225 or 202, or equivalent, or placement in an upper-level course; and RUSSIAN 231.

Requirements

Minimum Credits: 27

Russian Language and Literature track

1. Core Courses:

- RUSSIAN 301 (or RCLANG 323) and 302, or 303
- RUSSIAN 401 and 402
- RUSSIAN 451 or 499
- RUSSIAN 347, plus 348 or 375

2. Russian literature/culture outside of the 19th Century:

- at least one course (e.g. RUSSIAN 333, 352, 361, 365, 391, 450, 467, 468, 469, 470, 471, 472, 475, SLAVIC 313, 470).
3. **Cognate Requirement for Russian Language and Literature: three or more credits in advanced courses (300-level or above)**
- cognate courses studying some other aspect of Russia (special attention is called to the courses listed under *Russian, East European, and Eurasian Studies*), or;
 - another Slavic language (Czech, Bosnian, Croatian, and Serbian, Ukranian, or Polish), or;
 - another foreign language

Culture track

1. **Core Courses:**
- RUSSIAN 231 or SLAVIC 270 or 240 or 281
 - RUSSIAN 301 (or RCLANG 323) and 302; or 303
 - RUSSIAN 401 and 402
 - RUSSIAN 451 or 499
2. **Upper-Level Electives for Culture subplan:**
- At least two of RUSSIAN 322, 333, 346, 347 or 348, 352, 358, 361, 365, 375, 391, 450, 467, 471, 472, 474, 475, 477, SLAVIC 313, 470, 481.
3. **Cognate Requirement for Russian Language and Literature: three or more credits in advanced courses (300-level or above)**
- cognate courses studying some other aspect of Russia (special attention is called to the courses listed under *Russian, East European, and Eurasian Studies*), or;
 - another Slavic language (Czech, Bosnian, Croatian, and Serbian, Ukranian, or Polish), or;
 - another foreign language

Heritage Speakers track

1. **Core Courses:**
- RUSSIAN 301 and 302, or equivalent
 - RUSSIAN 401 and 402
 - RUSSIAN 501 and 502
 - two of: RUSSIAN 451, RUSSIAN 499, RCLANG 323
2. **Upper-Level Electives for Heritage Speakers subplan:**
- At least two of RUSSIAN 322, 333, 347, 352, 348, 358, 361, 365, 375, 391, 450, 467, 469, 471, 472, 473, 474, 475, 477, SLAVIC 313, or other literature courses with permission of advisor.
3. **Cognate Requirement for Russian Language and Literature: three or more credits in advanced courses (300-level or above)**
- cognate courses studying some other aspect of Russia (special attention is called to the courses listed under *Russian, East European, and Eurasian Studies*), or;
 - another Slavic language (Czech, Bosnian, Croatian, and Serbian, Ukranian, or Polish), or;
 - another foreign language

Distribution Policy

No course used to fulfill a major requirement may be used toward the **LSA Distribution**

Requirement. In addition, courses in the RUSSIAN, BCS, CZECH, POLISH, SLAVIC, and UKR subject areas may not be used toward the Distribution Requirement.

Honors

Undergraduate majors who have maintained a 3.5 grade point average in Russian courses and 3.4 overall GPA may apply for admission to the Honors major. In addition to regular requirements for the major, qualified Honors majors work on a major project during the senior year, and complete an Honors thesis based on their research.

Russian Language, Literature, and Culture Minor

The minor in Russian Language, Literature, and Culture is designed to give students a fundamental competence in Russian language upon which they can build, as well as a knowledge of some of the major cultural achievements and individual masterpieces of Russian literature and cinema.

The intended audience comprises all undergraduates with substantial interest in Russian language, literature, and culture, but with insufficient time to pursue a concentration in this area. Such students might include those who envision doing professional work in Russia, those intending to pursue graduate work in areas related to Russian culture and society, as well as those who may wish to learn more about their own heritage.

Effective Winter 2020

Exclusions:

Not open to those who are electing a concentration in Russian, East European, and Eurasian Studies.

Students could concurrently pursue this academic minor with one in REES with the following restrictions:

- (1). REES academic minors may not count any course for which Slavic is the home unit.*
- (2). Slavic academic minors may not count REES 397 or any course for which REES is the home unit, which includes SLAVIC 395 and 396.*

Advising

Students wishing to pursue an academic minor in the Department of Slavic Languages and Literatures must develop a specific plan for its completion in consultation with the department's designated advisor, Michael Makin. Appointments are scheduled online at www.lsa.umich.edu/slavic/undergraduate/advising

Prerequisites

RUSSIAN 201 or equivalent.

Requirements

Minimum Credits: 16

1. RUSSIAN 202 or 203 or 223 or RCLANG 293, and
2. 12 additional credits in courses selected from among the following, with at least 6 credits elected at the upper level:
 - RUSSIAN 231, 301, 302, 303, 322, 323, 333, 346, 347, 348, 358, 361, 365, 375, 391, 450, 451, 453, 462, 463, 464, 466, 469, 474, 475, 478, 479, 480, 499
 - SLAVIC 240, 313, 315, and 316.

Russian Studies Minor

The minors provide interdisciplinary surveys of three separate geographic sub-domains covered by the major in Russian, East European, and Eurasian Studies. Slavic Languages and Literatures offers interdisciplinary minors to students who wish to:

- better understand the history and culture of either Russia and the former Soviet Union or Eastern Europe or Central Eurasia (especially the countries of Transcaucasia, Central and Inner Asia)
- gain insight into the political, economic, and social transitions taking place in the region.

Effective Fall 2019

Exclusions:

Not open to those electing a major in Russian.

Advising

Undergraduate advisors in Slavic Languages and Literatures are available to meet with undeclared students who would like to learn more about the program, and also with current majors and minors who would like to discuss course selection, degree requirements, major/minor releases, and other matters of concern. Appointments can be made through our online appointment calendar. Students may also contact slavic@umich.edu for any inquiries. The Slavic Department is currently located at 3040 Modern Languages Building, 812 E. Washington St. Ann Arbor, MI.

Prerequisites

None.

Requirements

Minimum Credits: 15

At least 15 credits of courses on Russian specific topics, selected in consultation with and approved by the Slavic undergraduate academic advisor.

A minimum of 3 courses that will be counted toward the academic minor must be upper-level (300- or 400-level).

1. REEES 395: Survey of Russia: The Russian Empire, the Soviet Union, and the Successor States.
2. *Disciplinary distribution:* At least one 3-credit course in each sub-area (arts/culture, history*, and social science).

*In most cases, students who have taken REEES 395 should not enroll in HISTORY 434.

Constraints

Russian language courses may not count toward the academic minor.

Russian, East European, and Eurasian Studies Major

The undergraduate curriculum in Russian, East European, and Eurasian Studies offers broad, interdisciplinary training for students who wish to acquire extensive knowledge of countries of the former Soviet Union and East Central Europe. Proficiency in a language of the region is an important component of the Russian, East European, and Eurasian Studies major. The degree prepares majors for graduate study as well as professional opportunities in areas ranging from government to business to teaching.

Effective Winter 2017

Prerequisites

One of the following first-year language sequences or the equivalent:

- ARMENIAN 101 and 102
- BCS 131 and 132
- CZECH 141 and 142
- POLISH 121 and 122
- RUSSIAN 101 and 102
- RUSSIAN 103/RCLANG 193
- RUSSIAN 123
- UKR 151 and 152
- YIDDISH 101/JUDAIC 101/GERMAN 127 and YIDDISH 102/JUDAIC 102/GERMAN 128

One of the following strongly recommended:

- RUSSIAN 231 (Introduction to Russian Culture)
- SLAVIC 225 (Arts and Culture of Central Europe)
- SLAVIC 240 (Introduction to Slavic Folklore)

Requirements

Minimum Credits: 30

20 of the minimum 30 credits must be at the 300-level or above.

1. **Geographic distribution** (8 credits):

At least two of the following courses:

- REEES 340 (Central Eurasia);
- REEES 395 (Russia);
- or REEES 396 or 397 (Eastern Europe).

2. **Disciplinary distribution** (9 credits):

At least one 3-credit upper-level course in each sub-area:

- Arts/Culture,
- History,

- and Social Science.
3. **Seminar** (3-4 credits):
One 400-level course with an extensive writing or research component on a REEES-focused topic approved by the REEES program director.
 4. **Electives:** Additional advisor approved electives to reach the 30 minimum credits. Electives may be drawn from advisor-approved courses related to REEES topics including language courses beyond the 4th term (up to 8 credits) and study abroad coursework.
 5. **Language Requirement:** Students must show 6th term proficiency in Russian or Polish, or 4th term proficiency in another language of the region (excluding German).

Other Department Policies

Concurrent Undergraduate/Graduate Studies (CUGS) Program

Majors who are advanced in their studies and have exhausted the undergraduate resources in Russian, East European, and Eurasian Studies are encouraged to talk with the REEES advisor about applying for enrollment in LSA and the Rackham Graduate School through the Concurrent Undergraduate-Graduate Studies (CUGS) Program in LSA.

Distribution Policy

No course used to fulfill a major requirement may be used toward the **LSA Distribution Requirement**. In addition, courses in the REEES subject area may not be used toward the Distribution Requirement.

Honors

Undergraduate majors who have maintained a 3.5 grade point average in the REEES major and a 3.4 overall GPA qualify for admission to the Honors plan. In addition to completing all College and REEES graduation requirements, Honors majors complete a Senior Thesis that is judged worthy of Honors designation by the thesis advisor and at least one other faculty reader. An Honors major is not limited to students who have been in the College Honors Program in the first and second year. Students with questions about the program are encouraged to schedule a meeting with an undergraduate academic advisor online at www.ii.umich.edu/crees.

Scandinavian Studies Minor

Scandinavian countries have made important contributions to Western civilization, from the Sagas of the medieval period to the pioneers of modern drama, Ibsen and Strindberg, the childrens literature of Astrid Lindgren, cinema, design, and other art forms. Scandinavian thinkers have also made crucial contributions to the development of the social welfare state, biotechnology, and engineering. Scandinavian companies such as Nokia, IKEA, and ABB are a major presence in international business, and it is a little-known fact that Sweden invest a higher

percentage of its GDP in research than any other country in the world, including the U.S. Sweden is the third-largest exporter of music. According to the United Nations, the Scandinavian countries rank highest in the world in quality of life, and they offer revealing comparisons with other industrial and post-industrial societies. The study of these contributions deserves to be strongly represented at a great research university such as the University of Michigan. We are proud to recall that the Swedish diplomat Raoul Wallenberg, who saved tens of thousands of Hungarian Jews during the Holocaust, was a University of Michigan alumnus. The Scandinavian program offers courses that take the pan-Scandinavian view in literature, history, culture, society, architecture, and the arts, plus courses that focus in depth on Swedish language and literature. Opportunities to study at the University of Uppsala, as well as Stockholm University, during a semester or year abroad program and to secure a summer internship in a Scandinavian country further enhance students' career options for graduate study, teaching, international business, or non-profit work. Students enrolled in the fourth-term Swedish course have the opportunity to travel to Sweden as a group on a study trip over Spring Break each year.

Effective Winter 2014

Advising

Students wishing to pursue a minor in Scandinavian Studies must develop a specific plan for its completion in consultation with Johanna Eriksson, johanna@umich.edu.

Grade Policies

Students must earn a grade of C- or better in all required courses. (*Effective Winter 2017*)

Prerequisites

SCAND 234 or equivalent, as determined by the Departmental placement examination.

Requirements

Minimum Credits: 15

At least 15 credits and five courses, to be chosen from the following categories as stated below.

1. **Required Scandinavian courses:** SCAND 325, 331, and 375.
2. **Electives:** Two courses chosen from among:
 - SCAND 351, 421, 430, 442, 460, 480.
 - Appropriate (Scandinavian topic) sections of: ENGLISH 407, FTVM/ENGLISH 330, and FTVM 441.
 - PHIL 371.

Science, Technology, and Society (STS)

Minor

Technology often precipitates the most drastic, most revolutionary changes in how societies and cultures engage one another. The Science, Technology, and Society (STS) minor helps students see beyond the veneer of policy issues to learn about the raw changes in our tools and methods. STS studies the ethical, environmental, and social implications of new tools and methods – and how these affect the developing world.

The minor helps students learn about such issues as:

- How science, technology, and medicine shape modern societies
- How social and political forces, choices, and values affect science, technology, and medicine
- How the social dynamics of science, technology, and medicine differ among world societies
- How issues of gender, race, and class appear in science, technology, and medicine

Students electing the STS minor learn multiple methods for studying and solving boundary-spanning problems, including not only those in traditional discipline-based approaches, but also in interdisciplinary and experimental ones.

Effective Winter 2016

Exclusions:

*Not open to students with a minor in **Medical Anthropology** or **History of Medicine and Health**.*

Advising

Students wishing to pursue a minor in Science, Technology, and Society must develop a specific plan for its completion in consultation with the program's designated advisor. Please use our **LSA online advising system** to schedule an appointment with the STS Undergraduate Director.

Prerequisites

None for the minor *per se*, although individual courses elected to meet the requirements of the minor may have course prerequisites.

Requirements

Minimum Credits: 15

A minimum of 15 credits (and at least 5 courses), to be chosen from the list of approved STS courses. At least one course must be at the 300 level or above. Only one course at the 100 level is permitted.

Core course: RCSSCI 275 / HISTORY 285.

Electives. A minimum of 3 courses in a chosen focus track (Science; Technology; Medicine). Courses on science, technology, and society are offered by many different departments and programs in LSA as well as in other colleges of the university. Only courses specifically approved by the STS Program may be counted toward the minor. There are presently no provisions for exceptions to this rule. An up-to-date list of currently approved courses is available at the STS Program **website**.

Constraints

No course may be counted simultaneously toward both STS and any other minor. Students may not declare the STS minor later than the first week of the first term of their senior year.

Social Class and Inequality Studies

The minor in Social Class and Inequality Studies brings together courses in Women's and Gender Studies and from across the LSA curriculum that address social class as an analytic category and explore the intersections of of class with race, gender, and other dimensions of social structure. Required and elective courses taken together will provide a strong, interdisciplinary understanding of how social class has operated in past cultures as well as how it operates in the present in the U.S. and elsewhere.

Effective Winter 2023

Grade Policies

All courses in the minor in Social Class and Inequality Studies must be completed with a C- or above

Prerequisites

none

Requirements

Minimum Credits: 15

Foundational Course: WGS / SOC 216 — Thinking Class: Inequality in Media, Bodies, Environment, and More or SOC 242 — The Experience of Social Class in College and the Community

Of the total 15 credits, at least six credits must be taken in Women's and Gender Studies.

Electives: Four electives (12 credits) from a list of approved courses. At least two courses must be at the 300 level or above, with at least one at the 400 level.

Courses in Women's Studies

- WGS (WOMENSTD) / SOC 216: Thinking Class: Inequality in Media, Bodies, Environment, and More
- WGS 217 / ENGLISH 215: Intro to Women & Literature, *section titled "Narratives of Girlhood"*
- WGS (WOMENSTD) / NURS 220: Perspectives in Women's Health
- WGS 222/ENGLISH 212: Narratives of Girlhood
- WGS 250 (WOMENSTD 250): Race, Gender and Nation
- WGS 265: Intro Transgender Studies
- WGS (WOMENSTD) / PSYCH 297: Promoting Equity and Inclusion in the Academy and the Workplace
- WGS 304 / AAS 304: Gender & Immigration
- WGS 305/ALA 306: Interdisciplinary and Intersectional LGBTQ Health
- WGS (WOMENSTD) / PSYCH 309: Psychology of Social Change: Gender and Global Feminism
- WGS (WOMENSTD) / ENGLISH 314: Gender and Sexuality Studies in Literature, *section titled "Narratives of Girlhood"*
- WGS (WOMENSTD) / ENGLISH 315: Women and Literature, *section titled, "Working-Class Women's Literature"*
- WGS 319 (WOMENSTD 319): Race, Class, and Women's Reproductive Health

- WGS / AAS 323 / HISTORY 388: Black Feminist Thought and Practice
- WGS 331 (WOMENSTD 331): Feminist Theoretical Perspectives in Gender and Health
- WGS 335 (WOMENSTD 335): Gender and Globalization
- WGS (WOMENSTD) / AAS / HISTORY 337: Black Women in the U.S., Part II: Contemporary Perspective in the 20th and 21st Centuries
- WGS 347/AAS 317/ENGLISH 307: Threads: What Does Clothing Have to Do with Race, Culture, Politics, and the Environment? (*FA22 or later*)
- WGS 348 / SOC 345: Sociology of Sexualities
- WGS (WOMENSTD) / AAS 365: Global Perspectives on Gender, Health, and Reproduction
- WGS 374 (WOMENSTD 374): Race, Gender and Incarceration
- WGS (WOMENSTD) / PSYCH 394: Sex, Sexuality and Public Policy
- WGS 410 (WOMENSTD 410): Reproductive Justice: Legal and Ethical Issues
- WGS (WOMENSTD) / AMCULT 411: Rednecks, Queers, and Country Music
- WGS 417 (WOMENSTD 417): Race, Gender, & Mental Health in the 19th Century
- WGS 422/POLSCI 401: Feminist Political Theory
- WGS (WOMENSTD) / ANTHRO 428: Sex Panics in the UK and the US
- WGS (WOMENSTD) / ANTHRO 446: Sex and the City: Urban Geography and Sexual Locations
- WGS 443 (WOMENSTD 443): Pedagogy of Empowerment: Activism in Race, Gender, and Health
- WGS / SOC 451: Women, Inequality, and Work

Courses in Other Departments

- AAS 347 / HISTORY 329 / RCSSCI 343 / SOC 335: Urban Inequality in America
- AAS 453: Culture, Class, and Conflict in Southern Africa
- ALA / PSYCH / SOC 218: Foundations of Intergroup Relations
- AMCULT / HISTORY 440: American Thought and Culture Since 1940
- AMCULT / SOC 221: Social Inequality
- ANTHRCUL 370 / LING 370: Language and Discrimination
- ASIAN 383: Wealth and Poverty in Korea: What it means to be rich (or not) in Korea
- ECON 325: Economics of Education
- ECON 320: Survey of Labor Economics
- ENGLISH 290: Themes in Language and Literature, *section titled: "Working Class Literature"*
- ENGLISH 317: Literature and Culture, *section titled: "Rust Belt Literature" or "Inside-Out Prison Exchange"*
- ENGLISH 375: World Lit in English, topic 80- *Race and Economy*
- ENGLISH 384: Caribbean Literature, *section titled "Caribbean Women Writers"*
- ENGLISH 390: Literature and Culture, *section titled "The Theory Mess"*
- ENGLISH 450: Studies in Medieval and Renaissance Literature, *section titled: "Medieval Rebels"*
- ENVIRON 222 - Introduction to Environmental Justice
- HISTORY 282: A History of the Economy
- HISTORY 445: Topics in History, *sections titled: "Capitalism and Socialism" or "What is Capitalism?"*
- MEMS 220: Knights, Peasants, and Bandits

- ORGSTUDY 495: Special Topics in Organizational Studies, *section titled: "Organizations and Inequality: Race, Class, and Gender in Education;" or "Racial Disparities in Policing: Causes, Consequences, and Correctives" or "Urban Inequality and Policy in the United States"*
- PSYCH 316 / AAS 331: The World of the Black Child
- PSCYH 457: Current Topic Dev Psych, *section titled: "Transitions to Adulthood in Developmental and Ecological Context"*
- POLSCI 332: The Politics of America's Economic Inequality
- POLSCI 334/ANTHRCUL 317/HISTORY 228/POLSCI 334/REEES 397/SLAVIC 337/SOC 317: Communism and Capitalism in Eastern Europe
- POLSCI 348: Pol Econ Development
- RCARTS 300: Socially Engaged Visual Art in Prison
- RCSSCI 230: Poverty, Inequality, and Discrimination
- RCSSCI 250: Topics in Social Theory and Practice, *section titled "Global Workers' Rights"*
- RCSSCI 330: Urban and Community Studies I
- RCSSCI 360: Social Science Junior Seminar, *section titled "Labor Movements, Inequality and Democracy" or "Histories of Race and Law" or "Migrants: Understanding the Inequities in the US Agricultural Workforce"*
- RCSSCI 365: Excellence, Equity, and the Politics of Education
- RCSCI 461: Senior Seminar, *section titled "Decarceration Activism" or "Restorative Justice, Prison Reform, Abolition: From Theory to Practice"*
- RCSTP 450: Advanced Topics in Social Theory and Practice, *section titled "Restorative Justice, Prison Reform, Abolition: From Theory to Practice"*
- SOC 204: International Migration and the Politics of Membership in a Globalizing World
- SOC 233: Social Problems
- SOC 242: The Experience of Social Class in College and the Community
- SOC 305: Sociological Theory
- SOC 315: Economic Sociology
- SOC 317: Communism and Capitalism in Eastern Europe
- SOC 330: Population Problems, *section titled "Families, Households" or "Changing Families"*
- SOC / WGS 451: Women, Inequality, and Work
- SOC 474: Health Inequalities
- SOC 475: Health, Medicine & Society
- SOC 495: Topics in Sociology, *section titled: "Inequality in Education" or "Critical Sociology" or "Restorative Justice, Prison Reform, Abolition: From Theory to Practice" or "Urban Inequality and Policy in the US" or "The Politics of Inequality"*
- SOC 503: The Sociology of Race, Ethnicity, and Immigration
- SOC 595: Topics in Sociology, *section titled "Social Stratification" or "Stable and Integrated Housing for America's Working Poor"*

Residency

At least 9 credits in the minor must be elected in-residence: : Courses elected on the Ann Arbor campus or at off-campus sites directed by Ann Arbor faculty. This includes STDABRD, Camp Davis, Biological Station, Michigan-in-Washington.

Social Class and Inequality Studies (Minor) (Fall 2022)

Effective Fall 2022

Grade Policies

All courses in the minor in Social Class and Inequality Studies must be completed with a C- or above

Prerequisites

none

Requirements

Minimum Credits: 15

Foundational Course: WGS / SOC 216 — Thinking Class: Inequality in Media, Bodies, Environment, and More or SOC 242 — The Experience of Social Class in College and the Community

Of the total 15 credits, at least six credits must be taken in Women's and Gender Studies.

Electives: Four electives (12 credits) from a list of approved courses. At least two courses must be at the 300 level or above, with at least one at the 400 level.

Courses in Women's Studies

- WGS (WOMENSTD) / SOC 216: Thinking Class: Inequality in Media, Bodies, Environment, and More
- WGS 217 / ENGLISH 215: Intro to Women & Literature, *section titled "Narratives of Girlhood"*
- WGS (WOMENSTD) / NURS 220: Perspectives in Women's Health
- WGS 222/ENGLISH 212: Narratives of Girlhood
- WGS 250 (WOMENSTD 250): Race, Gender and Nation
- WGS 265: Intro Transgender Studies
- WGS (WOMENSTD) / PSYCH 297: Promoting Equity and Inclusion in the Academy and the Workplace
- WGS 304 / AAS 304: Gender & Immigration
- WGS 305/ALA 306: Interdisciplinary and Intersectional LGBTQ Health
- WGS (WOMENSTD) / PSYCH 309: Psychology of Social Change: Gender and Global Feminism
- WGS (WOMENSTD) / ENGLISH 314: Gender and Sexuality Studies in Literature, *section titled "Narratives of Girlhood"*
- WGS (WOMENSTD) / ENGLISH 315: Women and Literature, *section titled, "Working-Class Women's Literature"*
- WGS 319 (WOMENSTD 319): Race, Class, and Women's Reproductive Health
- WGS / AAS 323 / HISTORY 388: Black Feminist Thought and Practice
- WGS 331 (WOMENSTD 331): Feminist Theoretical Perspectives in Gender and Health
- WGS 335 (WOMENSTD 335): Gender and Globalization
- WGS (WOMENSTD) / AAS / HISTORY 337: Black Women in the U.S., Part II: Contemporary Perspective in the 20th and 21st Centuries
- WGS 347/AAS 317/ENGLISH 307: Threads: What Does Clothing Have to Do with Race,

Culture, Politics, and the Environment? (*FA22 or later*)

- WGS 348 / SOC 345: Sociology of Sexualities
- WGS (WOMENSTD) / AAS 365: Global Perspectives on Gender, Health, and Reproduction
- WGS 374 (WOMENSTD 374): Race, Gender and Incarceration
- WGS (WOMENSTD) / PSYCH 394: Sex, Sexuality and Public Policy
- WGS 410 (WOMENSTD 410): Reproductive Justice: Legal and Ethical Issues
- WGS (WOMENSTD) / AMCULT 411: Rednecks, Queers, and Country Music
- WGS 417 (WOMENSTD 417): Race, Gender, & Mental Health in the 19th Century
- WGS 422/POLSCI 401: Feminist Political Theory
- WGS (WOMENSTD) / ANTHRO 428: Sex Panics in the UK and the US
- WGS (WOMENSTD) / ANTHRO 446: Sex and the City: Urban Geography and Sexual Locations
- WGS 443 (WOMENSTD 443): Pedagogy of Empowerment: Activism in Race, Gender, and Health
- WGS / SOC 451: Women, Inequality, and Work

Courses in Other Departments

- AAS 347 / HISTORY 329 / RCSSCI 343 / SOC 335: Urban Inequality in America
- AAS 453: Culture, Class, and Conflict in Southern Africa
- ALA / PSYCH / SOC 218: Foundations of Intergroup Relations
- AMCULT / HISTORY 440: American Thought and Culture Since 1940
- AMCULT / SOC 221: Social Inequality
- ANTHRCUL 370 / LING 370: Language and Discrimination
- ASIAN 383: Wealth and Poverty in Korea: What it means to be rich (or not) in Korea
- ECON 325: Economics of Education
- ECON 320: Survey of Labor Economics
- ENGLISH 290: Themes in Language and Literature, *section titled: "Working Class Literature"*
- ENGLISH 317: Literature and Culture, *section titled: "Rust Belt Literature" or "Inside-Out Prison Exchange"*
- ENGLISH 375: World Lit in English, topic 80- *Race and Economy*
- ENGLISH 384: Caribbean Literature, *section titled "Caribbean Women Writers"*
- ENGLISH 390: Literature and Culture, *section titled "The Theory Mess"*
- ENGLISH 450: Studies in Medieval and Renaissance Literature, *section titled: "Medieval Rebels"*
- ENVIRON 222 - Introduction to Environmental Justice
- HISTORY 282: A History of the Economy
- HISTORY 445: Topics in History, *sections titled: "Capitalism and Socialism" or "What is Capitalism?"*
- MEMS 220: Knights, Peasants, and Bandits
- ORGSTUDY 495: Special Topics in Organizational Studies, *section titled: "Organizations and Inequality: Race, Class, and Gender in Education;" or "Racial Disparities in Policing: Causes, Consequences, and Correctives" or "Urban Inequality and Policy in the United States"*
- PSYCH 316 / AAS 331: The World of the Black Child
- PSCYH 457: Current Topic Dev Psych, *section titled: "Transitions to Adulthood in*

Developmental and Ecological Context"

- POLSCI 332: The Politics of America's Economic Inequality
- POLSCI 348: Pol Econ Development
- RCSSCI 360: Social Science Junior Seminar, *section titled "Labor Movements, Inequality and Democracy"* or topic 70- *Histories of Race and Law*
- RCSSCI 365: Excellence, Equity, and the Politics of Education
- RCSCI 461: Senior Seminar, *section titled "Decarceration Activism" or "Restorative Justice, Prison Reform, Abolition: From Theory to Practice"*
- SOC 204: International Migration and the Politics of Membership in a Globalizing World
- SOC 233: Social Problems
- SOC 242: The Experience of Social Class in College and the Community
- SOC 305: Sociological Theory
- SOC 315: Economic Sociology
- SOC 317: Communism and Capitalism in Eastern Europe
- SOC 330: Population Problems, *section titled "Families, Households" or "Changing Families"*
- SOC / WGS 451: Women, Inequality, and Work
- SOC 474: Health Inequalities
- SOC 475: Health, Medicine & Society
- SOC 495: Topics in Sociology, *section titled: "Inequality in Education" or "Critical Sociology" or "Restorative Justice, Prison Reform, Abolition: From Theory to Practice"*
- SOC 503: The Sociology of Race, Ethnicity, and Immigration
- SOC 595 - Topics in Sociology, *section titled "Social Stratification" or "Stable and Integrated Housing for America's Working Poor"*

Residency

At least 9 credits in the minor must be elected in-residence: : Courses elected on the Ann Arbor campus or at off-campus sites directed by Ann Arbor faculty. This includes STDABRD, Camp Davis, Biological Station, Michigan-in-Washington.

Social Theory and Practice Major

The major in Social Theory and Practice supports students in developing the analytical and practical skills necessary for active engagement in the world and for building careers that promote equality and responsible citizenship. Students learn theories, methods, and strategies that enable them to understand and critique social structures and processes and to become effective actors in struggles for justice.

Students wishing to pursue a problem-centered interdisciplinary program in the social sciences must develop a plan for the major in consultation with department advisors. The STP major is an interdepartmental major that requires students to explicitly propose and pursue an individualized course of study that reflects broad social science perspectives. Through a curricular proposal created typically in the fall of the sophomore (or junior) year, STP students articulate a series of social issues and thematic threads which they will pursue through subsequent theoretical and experiential coursework. Consequently the STP major combines the freedom and responsibility of the Individualized Major Program within an

institutional umbrella.

Effective Fall 2015

Advising

1813 East Quadrangle

(734) 647-2745

www.lsa.umich.edu/rc

The Residential College (RC) is a four-year undergraduate liberal arts program with about 900 students and 60 faculty, situated within LSA. All RC advisors are RC faculty members and are available to meet with students to discuss RC and LSA requirements, possible majors, graduation requirements, etc. The RC **Board on Academic Standing** considers petitions submitted by RC students relating to requirements, deadlines, and academic circumstances. Appointments with academic advisors can be scheduled by calling the RC Academic Services Office at (734) 647-2745 or by stopping by the offices at 1813 East Quadrangle.

Prerequisites

RCSSCI 260: Understanding Power, Theorizing Knowledge and RCSSCI 290, a one credit course taken in the same academic term that helps develop a prospectus for the major.

One other “gateway” course, either an RCSSCI 200 level course or another course chosen in consultation with the STP department advisor. The aim of the gateway course is to introduce students to issues and approaches in the social sciences as well as to the ways questions are framed from different disciplinary perspectives.

Requirements

Minimum Credits: 29

Complete the following non-overlapping groupings:

1. **Required Institutional Framework Courses:**
 - A. **Core Course:** RCSSCI 301.
 - B. **Quantitative Methods:** at least one, typically STATS 250 or 280, SOC 310 or 312, or ECON 251 (or 404 elected prior to Winter 2015).
 - C. **Research Seminar:** RCSSCI 460, in which the student completes a Senior Project or Senior Thesis.
2. **Thematic Courses.** A minimum of six courses (and at least 18 credits) at the upper level (300 and above). Students are directed to consider how to create a cohesive union of theory, practice, and other course work that reflects the unique set of social issues they are attempting to understand. The thematic coursework must be conceptualized and defended by the student, be chosen in consultation with the advisor, and be organized in the following manner:
 - A. **Social Theory:** At least 3 additional social theory credits
 - B. **Community Engagement:** At least 3 approved “practicum” credits. Acceptable practicum courses require some form of community engagement beyond the classroom, in addition to regular critical reflection on that engagement. Examples include Project Outreach courses, Practicum in Sociology courses, the RC Spanish Language Internship Program, The RC Telling It Program, the RC

Semester in Detroit Program, the Prison Creative Arts Project, some sections of RCSSCI 360, RCSSCI 461, and RCIDIV 302.

C. *Additional electives*

RCSSCI 460 does not count toward this requirement.

Distribution Policy

No course used to fulfill a major requirement may be used toward the **LSA Distribution Requirement**. In addition, the two prerequisite courses for Social Theory & Practice (RCSSCI 260 & 290) may not be used toward the Distribution Requirement.

Sociology Major

A major in sociology allows for a wide range of possible course elections, enabling students to create a personalized curriculum that matches their intellectual and career interests. The requirements for the major offer students a foundation in fundamental sociological principles, practices, theories, and methodology. Flexible major electives allow students to study the discipline broadly or to focus on a specific area of the discipline that inspires them.

Effective Winter 2023

Exclusions:

Students may elect a subplan in Sociology and Social Work, Law, Justice, and Social Change, or the Sociology of Health and Medicine, but may only elect one subplan.

Students pursuing a major in Sociology with a LJSC subplan may not elect a minor in Crime & Justice.

Students who elect a Sociology major with a subplan in Social Work and Social Change may not elect the following programs:

Community Action and Social Change Minor (School of Social Work)

Social Theory and Practice Major (Residential College)

Advising

Please review the **Advising** page of the Sociology website for full information on declaring a Sociology major, sub-major, or minor, getting in touch by email, or scheduling an appointment.

A department advisor is available to discuss the choice of Sociology as a major or minor, assist with course planning, and provide guidance on department opportunities. Students may schedule an advising appointment using the online appointment scheduler linked **here** or email advising questions to **socadvisor@umich.edu**.

Grade Policies

Students must earn at least a C– in the prerequisites for the major and in all courses they plan to include in the plan for the major. Courses elected as pass/fail may not be included in the plan for the major.

Prerequisites

- Students planning to major in sociology must elect and complete with a C- or better one of the following introductory courses before declaring the major: SOC 100, 102, 300, 302.
- First year students and sophomores electing an introductory course should elect SOC 100 or SOC 102.
- Juniors and seniors electing an introductory course should elect SOC 300 or SOC 302.
- The prerequisite course cannot be included in the 33 credits required for completion of the plan for the major.

Requirements

Minimum Credits: 33

After electing one of the introductory prerequisite courses, majors are required to complete at least 33 credits of SOC coursework at the 200 level or above, including:

1. *Statistics*: SOC 210, STATS 250, or STATS 280 (or their equivalent)
2. *Research Methods*: SOC 310. Must be taken on UM—Ann Arbor campus
3. *Sociological Theory*: SOC 305. Must be taken on UM—Ann Arbor campus

The remaining credits must come from SOC courses at the 200 level and above.

A minimum of fourteen elective credits must be elected at the 300-level or above. Students who wish to focus their elective coursework on a particular area of sociology are encouraged to consult with the department advisor.

Course Planning

The research methods and statistics courses facilitate the understanding of sociological themes and concepts explored in upper-division courses. Students are strongly encouraged to complete the statistics course in the sophomore year, the research methods course before the end of the junior year, and complete all three of the required courses before the final academic term of the senior year. Students intending to write an honors thesis in sociology must take statistics before the first term of the junior year and the methods course no later than the second term of the junior year.

Optional Sub-Majors:

Law, Justice, and Social Change

Sociology of Health and Medicine

Sociology and Social Work

Constraints

- **Credit Limits and Exclusions.** A maximum of 6 credits in the major may come from SOC 394 SURO, SOC 395, and SOC 396.
- The department will allow up to two courses with significant sociological content from other LSA departments or transfer institutions to be included in the plan for the major. Students interested in petitioning to include a non-SOC transfer course in their major should complete the petition process which includes submitting a petition form and the course syllabus.

Residency

The department expects that at least 18 of the 33 credits required for a sociology major be completed with Department of Sociology faculty on the UM–Ann Arbor campus. The research methods and sociological theory courses must be taken in residence on the UM–Ann Arbor campus.

Distribution Policy

No course used to fulfill a major requirement may be used toward the **LSA Distribution Requirement**. In addition, courses in the SOC subject area may not be used toward the Distribution Requirement.

Honors

Effective Fall 2019

The program begins with SOC 497 (3 credits) in the second term of the junior year and continues through the senior year with SOC 498 (3 credits) and 499 (3 credits). During SOC 498 and 499, students work with the supervision of their faculty mentors, while continuing to meet individually with the faculty Honors coordinator. SOC 497 is offered in the Winter Term only. These three courses may be used toward the general electives in the major but may not be used as sub-major electives.

Honors Application Prerequisites and Course Planning

Applicants to the **Honors Program in Sociology** demonstrate originality in their coursework, show a serious interest in scholarly research, and give evidence of their ability to work independently on a thesis. Students should plan on completing SOC 210 or STATS 250 prior to enrolling in SOC 497 and should take SOC 310 prior to or concurrently with it. The Honors Program in Sociology is a three-semester sequence of course and thesis work. Students typically apply as first-semester juniors and begin with the first course, SOC 497, the following semester.

To graduate with Honors, students must meet all requirements for the major; complete SOC 497, 498, and 499; write an acceptable Honors thesis; and maintain a 3.4 overall GPA. Upon completion of this course work and dependent upon the evaluation of the thesis, the academic record and diploma will designate the degree awarded "with Honors," "with High Honors," or "with Highest Honors."

Interested students should visit the website to make an appointment with the department advisor.

Sociology (Major) (Fall 2019 - Fall 2022)

Effective Fall 2019

Exclusions:

Students may elect a subplan in Sociology and Social Work, Law, Justice, and Social Change, or the Sociology of Health and Medicine, but may only elect one subplan.

Students pursuing a major in Sociology with a LJSC subplan may not elect a minor in Crime & Justice.

Students who elect a Sociology major with a subplan in Social Work and Social Change may not elect the following programs:

Community Action and Social Change Minor (School of Social Work)

Social Theory and Practice Major (Residential College)

Advising

Please review the **Advising** page of the Sociology website for full information on declaring a Sociology major, sub-major, or minor, getting in touch by email, or scheduling an appointment.

A department advisor is available to discuss the choice of Sociology as a major or minor, assist with course planning, and provide guidance on department opportunities. Students may schedule an advising appointment using the online appointment scheduler linked **here** or email advising questions to **socadvisor@umich.edu**.

Grade Policies

Students must earn at least a C– in the prerequisites for the major and in all courses they plan to include in the plan for the major. Courses elected as pass/fail may not be included in the plan for the major.

Prerequisites

- Students planning to major in sociology must elect and complete with a C- or better one of the following introductory courses before declaring the major: SOC 100, 102, 195, 300, 302.
- Freshmen and Sophomores electing an introductory course should elect SOC 100, SOC 102, or SOC 195.
- SOC 195 is restricted to firstand second-year students who are in the LSA Honors Program and/or have a GPA of 3.2 or higher.
- Juniors and seniors electing an introductory course should elect SOC 300 or SOC 302.
- The prerequisite course cannot be included in the 33 credits required for completion of the plan for the major.

Requirements

Minimum Credits: 33

After electing one of the introductory prerequisite courses, majors are required to complete at least 33 credits of SOC coursework at the 200 level or above, including:

1. *Statistics*: SOC 210, STATS 250, or STATS 280 (or their equivalent)
2. *Research Methods*: SOC 310. Must be taken on UM—Ann Arbor campus
3. *Sociological Theory*: SOC 305. Must be taken on UM—Ann Arbor campus

The remaining credits must come from SOC courses at the 200 level and above.

A minimum of fourteen elective credits must be elected at the 300-level or above. Students who wish to focus their elective coursework on a particular area of sociology are encouraged to consult with the department advisor.

Course Planning

The research methods and statistics courses facilitate the understanding of sociological themes

and concepts explored in upper-division courses. Students are strongly encouraged to complete the statistics course in the sophomore year, the research methods course before the end of the junior year, and complete all three of the required courses before the final academic term of the senior year. Students intending to write an honors thesis in sociology must take statistics before the first term of the junior year and the methods course no later than the second term of the junior year.

Optional Sub-Majors:

Law, Justice, and Social Change

Sociology of Health and Medicine

Sociology and Social Work

Constraints

- **Credit Limits and Exclusions.** A combined total of eight INDEPENDENT or EXPERIENTIAL credits may be included in the plan for the major. This includes but is not limited to SOC 225 (and 389), 321, 324, 394, 395, 396, and 488. There is an additional limit on SOC 225 (or 389) credits; only four credits of SOC 225 (or 389) may be included in the plan for the major.
- The department will allow up to two courses with significant sociological content from other LSA departments or transfer institutions to be included in the plan for the major. Students interested in petitioning to include a non-SOC transfer course in their major should complete the petition process which includes submitting a petition form and the course syllabus.

Residency

The department expects that at least 18 of the 33 credits required for a sociology major be completed with Department of Sociology faculty on the UM–Ann Arbor campus. The research methods and sociological theory courses must be taken in residence on the UM–Ann Arbor campus.

Distribution Policy

No course used to fulfill a major requirement may be used toward the **LSA Distribution Requirement**. In addition, courses in the SOC subject area may not be used toward the Distribution Requirement.

Honors

Effective Fall 2019

The Program begins with SOC 497 (3 credits) in the second term of the junior year and continues through the senior year with SOC 498 (3 credits) and 499 (3 credits). During SOC 498 and 499, students work with the supervision of their faculty mentors, while continuing to meet individually with the faculty Honors coordinator. SOC 497 is offered in the Winter Term only. These three courses may be used toward the general electives in the major but may not be used as sub-major electives.

Honors Application Prerequisites and Course Planning

Applicants to the **Honors Program in Sociology** have at least a 3.5 GPA within their sociology courses and at least a 3.4 cumulative GPA in their LS&A courses. In addition, they

already will have demonstrated originality in their own course work, shown a serious interest in scholarly research, and given evidence of their ability to work independently on a thesis. Students should plan on completing SOC 210 or STATS 250 (or 350) prior to enrolling in SOC 497 and should take SOC 310 or 312 prior to or concurrently with it. The Honors Program in Sociology is a three-semester sequence of course and thesis work. Students typically apply as first-semester juniors and begin with the first course, SOC 497, the following semester.

To graduate with Honors, students must meet all requirements for the major; complete SOC 497, 498, and 499; write an acceptable Honors thesis; and maintain a 3.4 overall GPA. Upon completion of this course work and dependent upon the evaluation of the thesis, the academic record and diploma will designate the degree awarded "with Honors," "with High Honors," or "with Highest Honors."

Interested students should call (734) 764-6324 or visit the website to make an appointment with the department's department advisor.

Law, Justice, and Social Change (Sub-Major)

Students have the option of adding a subplan in "Law, Justice, and Social Change" to their Sociology major. Courses in the Law, Justice, and Social Change submajor emphasize the ways in which legal and other social institutions reproduce and exacerbate social inequalities, and the capacity of social groups to challenge such institutions in ways that produce fundamental social change. A wide range of courses will explore how we understand the concepts of justice and apply it and will develop knowledge in criminology, law, social movements, human rights.

Effective Winter 2023

Advising

Please review the **Advising** page of the Sociology website for full information on declaring a Sociology major, sub-major, or minor, getting in touch by email, or scheduling an appointment. A department advisor is available to discuss the choice of Sociology as a major or minor, assist with course planning, and provide guidance on department opportunities. Students may schedule an advising appointment using the online appointment scheduler linked **here** or email advising questions to **socadvisor@umich.edu**.

Prerequisites

None.

Requirements

A minimum of eight credits must be elected in the subplan at the 300-level or above (not including prerequisite).

To have a notation of the submajor appear on your transcript, you must successfully complete a

minimum of 12 credits from the following list:

SOC 204: International Migration and the Politics of Membership in a Globalizing World

SOC 208: Terrorism, Torture, & Violence

SOC 214: Non-profits

SOC 225: Project Community - Criminal Justice sections

SOC 250: Politics, Power, and Society

SOC 270: Gender and the Law

SOC 304: American Immigration

SOC 325: Project Community: Advanced Practicum - Criminal Justice Section

SOC 335: Urban Inequality in America

SOC 354: Law and Society

SOC 368: Criminology

SOC 391: Justice in Action

SOC 422: Latin America

SOC 461: Social Movements: Political Protest and Collective Resistance

SOC 465: Sociology of Deviance: From Sin to Sickness

SOC 468: Crime & Justice: Inside Out Prison Exchange

SOC 476: Sociology of Bioethics

SOC 480: Environmental Justice

Approved topics in SOC 295, 495, 394 (SURO), 395 (Independent Study), 396 (Internship)

Constraints

Up to 6 credits of SOC 394 SURO, SOC 395 Independent Study, and SOC 396 Internship may count in the sub-major.

Distribution Policy

No course used to fulfill a major requirement may be used toward the **LSA Distribution Requirement**. In addition, courses in the SOC subject area may not be used toward the Distribution Requirement.

Law, Justice, and Social Change (Sub-Major) (Fall 2014 - Fall 2022)

Effective Fall 2014

Advising

Please review the **Advising** page of the Sociology website for full information on declaring a Sociology major, sub-major, or minor, getting in touch by email, or scheduling an appointment.

A department advisor is available to discuss the choice of Sociology as a major or minor, assist with course planning, and provide guidance on department opportunities. Students may schedule an advising appointment using the online appointment scheduler linked **here** or email advising questions to **socadvisor@umich.edu**.

Requirements

A minimum of eight credits must be elected in the subplan at the 300-level or above (not including prerequisite).

To have a notation of the submajor appear on your transcript, you must successfully complete a minimum of 12 credits from the following list:

- SOC 204, 208, 214, 250, 270, 335, 350, 354, 368, 450, 461, 465, 468, 476, 489
- appropriate topics in SOC 295, 495
- approved undergraduate research in SOC 394
- approved independent studies in SOC 395
- approved internships in SOC 396
- SOC 225 (or 389)*: Practicum in Sociology (Project Community at a criminal justice site), sections titled "Criminal Justice: Prison - Creative Writing", "Criminal Justice: Jail (Men's and Women's) - Creative Writing", "Criminal Justice: Jail (Men's and Women's) - Art Workshop", and "Criminal Justice: American Friends Service Committee"

Constraints

A maximum of 6 credits for the subplan may come from Experiential Learning or Independent Study style courses.

Distribution Policy

No course used to fulfill a major requirement may be used toward the **LSA Distribution Requirement**. In addition, courses in the SOC subject area may not be used toward the Distribution Requirement.

Sociology and Social Work (Sub-Major)

The Sociology and Social Work subplan is intended for students who have an interest in pursuing a career in social work or related helping professions. Much of the content in Sociology—particularly its emphasis on social and economic inequality, processes of social change, and community engagement—serves as an important basis for future studies in social work.

Students in the Sociology and Social Work subplan may enter an accelerated MSW program at the University of Michigan School of Social Work if they take 12 additional Social Work credits during their senior year. Completion of the Sociology and Social Work subplan and these 12 credits with a B average or better will place them into the School of Social Work's existing 45-credit accelerated program instead of the more traditional 60-credit MSW program.

Effective Winter 2023

Advising

Please review the **Advising** page of the Sociology website for full information on declaring a Sociology major, sub-major, or minor, getting in touch by email, or scheduling an

appointment.

A department advisor is available to discuss the choice of Sociology as a major or minor, assist with course planning, and provide guidance on department opportunities. Students may schedule an advising appointment using the online appointment scheduler linked **here** or email advising questions to **socadvisor@umich.edu**.

Prerequisites

None.

Requirements

Minimum Credits: 33

1. SW 305: Community Action and Social Change
2. SOC 225: Project Community: Sociology in Action

To have a notation of the Sociology and Social Work submajor appear on your transcript, you must successfully complete a minimum of 12 credits from the following list:

SOC 204: International Migration

SOC 221: Social Inequality

SOC 233: Social Problems

SOC 250: Politics, Power, and Social Change

SOC 303: Race and Ethnicity

SOC 304: American Immigration

SOC 325: Project Community Advanced Practicum*

SOC 335: Urban Inequality

SOC 344: Sociology of Families

SOC 345: Sociology of Sexuality

SOC 354: Law and Society

SOC 368: Criminology

SOC 391: Sociology in Practice*

SOC 404: Latinos

SOC 422: Latin America

SOC 447: Sociology of Gender

SOC 455: Sociology of Religion

SOC 458: Sociology of Education

SOC 461: Social Movements

SOC 468: Inside-Out Prison Exchange*

Approved topics in SOC 295, 495, 394 (SURO), 395 (Independent Study), 396 (Internship)

A minimum of eight credits of electives must be elected in the subplan at the 300-level or above (not including prerequisite).

Constraints

Up to 6 credits of SOC 394 SURO, SOC 395 Independent Study, and SOC 396 Internship may count in the sub-major.

Other Department Policies

- Students who are interested in declaring a Sociology and Social Work subplan are encouraged to declare at or before the beginning of their junior year.
- All required courses for the Sociology and Social Work subplan (SOC 210, SOC 305, SOC 310, SW 305, and SOC 225) are offered every fall and winter term. *Courses do not need to be taken sequentially.* Students are strongly encouraged to take SOC 225 (Project Community) before applying to the MSW preferred admissions program.
- Students who declare later in their undergraduate studies may not be able to complete the optional 12 graduate credits in the School of Social Work during their senior year. This will not affect their ability to complete the Sociology and Social Work subplan, or their eligibility for preferred admissions to the MSW program. The only impact is whether they will be accepted into the accelerated 45-credit MSW program, or the regular 60-credit MSW program.

Distribution Policy

No course used to fulfill a major requirement may be used toward the **LSA Distribution Requirement**. In addition, courses in the SOC subject area may not be used toward the Distribution Requirement.

Sociology and Social Work (Sub-Major) (Fall 2019 - Fall 2022)

Effective Fall 2019

Advising

Please review the **Advising** page of the Sociology website for full information on declaring a Sociology major, sub-major, or minor, getting in touch by email, or scheduling an appointment.

A department advisor is available to discuss the choice of Sociology as a major or minor, assist with course planning, and provide guidance on department opportunities. Students may schedule an advising appointment using the online appointment scheduler linked **here** or email advising questions to **socadvisor@umich.edu**.

Requirements

Minimum Credits: 33

1. SW 305: Community Action and Social Change
2. SOC 225: Project Community: Sociology in Action

To have a notation of the Sociology and Social Work submajor appear on your transcript, you must successfully complete a minimum of 12 credits from the following list:

- SOC 203: Multiculturalism
- SOC 204: International Migration
- SOC 221: Social Inequality
- SOC 233: Social Problems
- SOC 250: Politics, Power, and Social Change
- SOC 303: Race and Ethnicity
- SOC 304: American Immigration
- SOC 325: Project Community Advanced Practicum*

- SOC 335: Urban Inequality
- SOC 344: Sociology of Families
- SOC 345: Sociology of Sexuality
- SOC 354: Law and Society
- SOC 368: Criminology
- SOC 391: Sociology in Practice*
- SOC 404: Latinos
- SOC 422: Latin America
- SOC 447: Sociology of Gender
- SOC 455: Sociology of Religion
- SOC 458: Sociology of Education
- SOC 461: Social Movements
- SOC 468: Inside-Out Prison Exchange*
- SOC 488/489*: Community Organizing (only 489 is experiential)*

appropriate topics in SOC 295, 495

approved undergraduate research in SOC 394*

approved independent studies in SOC 395*

approved internships in SOC 396*

*Experiential Learning/Independent Study Classes

A minimum of eight credits of electives must be elected in the subplan at the 300-level or above (not including prerequisite).

Other Department Policies

- Students who are interested in declaring a Sociology and Social Work subplan are encouraged to declare at or before the beginning of their junior year.
- All required courses for the Sociology and Social Work subplan (SOC 210, SOC 305, SOC 310, SW 305, and SOC 225) are offered every fall and winter term. *Courses do not need to be taken sequentially.* Students are strongly encouraged to take SOC 225 (Project Community) before applying to the MSW preferred admissions program.
- Students who declare later in their undergraduate studies may not be able to complete the optional 12 graduate credits in the School of Social Work during their senior year. This will not affect their ability to complete the Sociology and Social Work subplan, or their eligibility for preferred admissions to the MSW program. The only impact is whether they will be accepted into the accelerated 45-credit MSW program, or the regular 60-credit MSW program.

Distribution Policy

No course used to fulfill a major requirement may be used toward the **LSA Distribution Requirement**. In addition, courses in the SOC subject area may not be used toward the Distribution Requirement.

Sociology of Health & Medicine (Sub-Major)

Students have the option of adding a subplan in “Sociology of Health and Medicine” to their Sociology major. Courses in this subplan emphasize the socio-demographic, cultural, political,

and ethical contexts that underlie health behavior and health policy. A wide variety of courses will explore the sociology of sexuality, sex, and the body, national and global health inequalities, and specialized topics in such areas as bioethics, the sociology of HIV/AIDS, and the sociology of death & dying.

Effective Winter 2023

Advising

Please review the **Advising** page of the Sociology website for full information on declaring a Sociology major, sub-major, or minor, getting in touch by email, or scheduling an appointment. A department advisor is available to discuss the choice of Sociology as a major or minor, assist with course planning, and provide guidance on department opportunities. Students may schedule an advising appointment using the online appointment scheduler linked **here** or email advising questions to **socadvisor@umich.edu**.

Prerequisites

None.

Requirements

To have a notation of the submajor appear on your transcript, you must successfully complete a minimum of 12 credits from the following list:

SOC 225: Project Community - Public Health sections

SOC 230: Health & Population in South Africa

SOC 325: Project Community: Advanced Practicum - Public Health sections

SOC 330: Population Problems

SOC 345: Sociology of Sexuality

SOC 346: Sociology of the Body

SOC 347: Drugs and Society

SOC 430: World Population Dynamics

SOC 445: Diagnosis, Sex, & Society

SOC 465: Sociology of Deviance: From Sin to Sickness

SOC 473: Reproductive Health and Justice

SOC 474: Social Inequalities in Health

SOC 475: Health, Medicine, & Society

SOC 476: Sociology of Bioethics

SOC 477: Death & Dying

Approved topics in SOC 295, 495, 394 (SURO), 395 (Independent Study), 396 (Internship)

A minimum of eight credits must be elected in the subplan at the 300-level or above (not including prerequisite)

Constraints

Up to 6 credits of SOC 394 SURO, SOC 395 Independent Study, and SOC 396 Internship may count in the sub-major.

Distribution Policy

No course used to fulfill a major requirement may be used toward the **LSA Distribution Requirement**. In addition, courses in the SOC subject area may not be used toward the Distribution Requirement.

Sociology of Health & Medicine (Sub-Major) (Winter 2017 - Fall 2022)

Effective Winter 2017

Advising

Please review the **Advising** page of the Sociology website for full information on declaring a Sociology major, sub-major, or minor, getting in touch by email, or scheduling an appointment. A department advisor is available to discuss the choice of Sociology as a major or minor, assist with course planning, and provide guidance on department opportunities. Students may schedule an advising appointment using the online appointment scheduler linked **here** or email advising questions to **socadvisor@umich.edu**.

Requirements

To have a notation of the submajor appear on your transcript, you must successfully complete a minimum of 12 credits from the following list:

- SOC 230, 207, 330, 345, 346, 430, 445, 475, 476, 474, 477
- appropriate topics in SOC 295, 495
- approved undergraduate research in SOC 394
- approved independent studies in SOC 395
- approved internships in SOC 396
- public health setting of SOC 225 (or 389)

A minimum of eight credits must be elected in the subplan at the 300-level or above (not including prerequisite)

Constraints

A maximum of 6 credits for the subplan may come from Experiential Learning or Independent Study style courses.

Distribution Policy

No course used to fulfill a major requirement may be used toward the **LSA Distribution Requirement**. In addition, courses in the SOC subject area may not be used toward the Distribution Requirement.

Sociology of Health and Medicine Minor

The Sociology of Health and Medicine Minor emphasizes the socio-demographic, cultural,

political, and ethical contexts that underlie health behavior and health policy. A wide variety of courses will explore the sociology of sexuality, sex, and the body, national and global health inequalities, and specialized topics in such areas as bioethics, the sociology of HIV/AIDS, and the sociology of death & dying.

Effective Winter 2023

Exclusions:

Students with a declared academic major in Sociology with a subplan in Sociology of Health and Medicine are not permitted to minor in Sociology of Health and Medicine.

Advising

Please review the **Advising** page of the Sociology website for full information on declaring a Sociology major, sub-major, or minor, getting in touch by email, or scheduling an appointment.

A department advisor is available to discuss the choice of Sociology as a major or minor, assist with course planning, and provide guidance on department opportunities. Students may schedule an advising appointment using the online appointment scheduler linked **here** or email advising questions to **socadvisor@umich.edu**.

Grade Policies

Students must earn at least a C- or better in the minor prerequisite and in all courses they plan to include in the minor plan. Courses elected as pass/fail may not be included in the minor plan.

Prerequisites

One of:

- SOC 100: Introduction to Sociology; or
- SOC 102: Introduction to Sociology: Special Topics; or
- SOC 300: Sociological Principles and Problems, or
- SOC 302: Health and Society: An Introduction to Sociology

Requirements

Minimum Credits: 15

A minimum of 15 credits from any combination of the following courses. A minimum of nine credits must be elected in the minor at the 300-level or above (not including prerequisite).

SOC 225: Project Community- Public Health section

SOC 230: Health & Population in South Africa

SOC 325: Project Community: Advanced Practicum - Public Health section

SOC 330: Population Problems

SOC 345: Sociology of Sexuality

SOC 346: Sociology of the Body

SOC 347: Drugs and Society

SOC 430: World Population Dynamics

SOC 445: Diagnosis, Sex, & Society

SOC 465: Sociology of Deviance: From Sin to Sickness
SOC 473: Reproductive Health and Justice
SOC 474: Social Inequalities in Health
SOC 475: Health, Medicine, & Society
SOC 476: Sociology of Bioethics
SOC 477: Death & Dying
Approved topics in SOC 295, 495, 394 (SURO), 395 (Independent Study), 396 (Internship)

Constraints

- The department will allow up to one course with significant sociological content related to the Sociology of Health and Medicine from other LSA departments or transfer institutions to be included in the minor plan. Students interested in petitioning to include a non-SOC course or transfer course in their minor plan should complete the course petition process which includes submitting a petition form and the course syllabus.
- Up to 6 credits of SOC 394 SURO, SOC 395 Independent Study, and SOC 396 Internship may count in the minor.

Sociology of Health and Medicine (Minor) (Winter 2017 - Fall 2022)

Effective Winter 2017

Exclusions:

Students with a declared academic major in Sociology with a subplan in Sociology of Health and Medicine are not permitted to minor in Sociology of Health and Medicine.

Advising

Please review the **Advising** page of the Sociology website for full information on declaring a Sociology major, sub-major, or minor, getting in touch by email, or scheduling an appointment. A department advisor is available to discuss the choice of Sociology as a major or minor, assist with course planning, and provide guidance on department opportunities. Students may schedule an advising appointment using the online appointment scheduler linked **here** or email advising questions to **socadvisor@umich.edu**.

Grade Policies

Students must earn at least a C- or better in the minor prerequisite and in all courses they plan to include in the minor plan. Courses elected as pass/fail may not be included in the minor plan.

Prerequisites

One of:

- SOC 100: Introduction to Sociology; or
- SOC 102: Introduction to Sociology: Special Topics; or
- SOC 195: Honors Introduction to Sociology; or
- SOC 300: Sociological Principles and Problems, or
- SOC 302: Health and Society: An Introduction to Sociology

Requirements

Minimum Credits: 15

A minimum of 15 credits from any combination of the following courses. A minimum of nine credits must be elected in the minor at the 300-level or above (not including prerequisite).

- SOC 230: Health & Population in South Africa (4 credits)
- SOC 207: Sociology of Suffering (4 credits)
- SOC 225: Practicum in Sociology (Public Health Section) (3 credits)
- SOC 330: Population Problems (3 credits)
- SOC 345: Sociology of Sexuality (4 credits)
- SOC 346: Sociology of the Body (3 credits)
- SOC 347: Drugs and Society
- SOC 430: World Population Dynamics (3 credits)
- SOC 445 / WGS 449 (WOMENSTD 449): Diagnosis, Sex and Society (3 credits)
- SOC / WGS 465 / PSYCH 488: Sociology of Deviance: From Sin to Sickness (4 credits) (WN21 or later)
- SOC 473: Reproductive Health and Justice (3 credits) (WN22 or later)
- SOC 474: Social Inequalities in Health (3 credits)
- SOC 475: Medical Sociology (3 credits)
- SOC 476: Sociology of Bioethics (3 credits)
- SOC 477: Death & Dying (3-4 credits)

Students may also include the following courses with appropriate topics as approved by a Sociology department advisor:

- SOC 295: Topics in Sociology (1-4 credits)
- SOC 394: Undergraduate Research (1-4 credits)
- SOC 395: Independent Study (1-4 credits)
- SOC 396: Undergraduate Internship (1 credit)
- SOC 495: Topics in Sociology (1-4 credits)

Constraints

- The department will allow up to one course with significant sociological content related to the Sociology of Health and Medicine from other LSA departments or transfer institutions to be included in the minor plan. Students interested in petitioning to include a non-SOC course or transfer course in their minor plan should complete the course petition process which includes submitting a petition form and the course syllabus.
- A maximum of 6 credits in the minor plan may come from Experiential Learning or Independent Study style courses. These include but are not limited to SOC 225, SOC 394, SOC 395, and SOC 396.

Spanish Major

A major in Spanish allows students considerable flexibility in developing a program of study leading to competence in the language and a broad knowledge of Hispanic cultures and

literatures. Course offerings are grouped into four clusters from which students will select a program of study based on their interests and career plans:

- **Hispanic Communities:** For students interested in acquiring a broad knowledge of the diverse societies and cultures in the Spanish-speaking world. Included in this cluster are courses on culture, literature, and cinema throughout Spain and Latin America, as well as community service and internship courses.
- **Communication and Thought:** For students who wish to focus on language, linguistics, translation, communication in literature and other media, as well as the relationships between language, religion, society, and politics.
- **Power, Politics, and Cultural Production:** For students interested in political and economic issues in the Spanish-speaking world, as expressed in film, literature, and music, historically and in the present-day.
- **Race and Gender:** For students who wish to explore issues of gender and race among the diverse cultures of the Spanish-speaking world.

In selecting courses for a given area of specialization, students should refer to the RLL website and discuss their interests with a department advisor. No specific courses are required, nor is it necessary to declare an area of specialization.

Effective Fall 2022

Advising

The Department offers majors in French, Italian, Romance Languages & Literatures, and Spanish. It offers minors in French, Italian, Portuguese, and Spanish.

Appointments are scheduled **online** or at the department office, 4108 Modern Languages Building, (734) 764-5344.

Prerequisites

SPANISH 277. The prerequisite will be waived for Residential College students who complete one RCLANG 324 readings course in Spanish. Students who complete a second and/or a third RCLANG 324 course will receive major credit for a Spanish elective at the 300 level. For eligible students, SPANISH 278, Spanish for Heritage Language Learners, can be substituted for SPANISH 277.

Requirements

Minimum Credits: 30

A minimum of 10 courses (30 approved credits), of at least 3 credits each, beyond the prerequisite.

Required Courses in SPANISH:

- 4-5 courses of at least 3 credits each from SPANISH courses numbered 279 to 399
- 5-6 courses of at least 3 credits each from SPANISH courses at the 400-level

Electives/Cognates.

- Approved courses in other fields, if taught in Spanish, may also count as electives in Spanish.
- Students may count only one of ITALIAN 410 or PORT 280 toward the Spanish major.

- One approved optional cognate course (3 credits), taught in English in the area of Hispanic studies, is allowed.
- Students are encouraged to develop a balanced program of study that addresses the cultural production of various countries and historical periods.

Constraints

- SPANISH 308 does not count toward the major.
- No more than one Independent Study and one internship course (6 credits) can be included in the major/minor.
- Each course counted toward the major must be at least 3 credits.

Residency

A minimum of 5 courses of at least 3 credits each for the major must be taken either in residence or through a study- abroad program affiliated with the University of Michigan.

Distribution Policy

No course used to fulfill a major requirement may be used toward the **LSA Distribution Requirement**. In addition, courses in the CATALAN, FRENCH, ITALIAN, PORTUG, ROMLANG, ROMLING, and SPANISH subject areas may not be used toward the Distribution Requirement.

Honors

Qualified students may be admitted to a program of advanced study during their junior year (or at the beginning of the senior year following foreign study), leading to the degree of Bachelor of Arts with Honors in Spanish. Admission to senior-level Honors work in Spanish is by application only (forms are available on the department website at www.lsa.umich.edu/rll). A grade point average of at least 3.4 in all courses, and of 3.5 in Spanish major courses, is required for admission and for graduation with Honors in Spanish. The Honors Committee expects applicants to demonstrate superior ability for their level in both oral and written Spanish, and to present evidence of serious interest in research. Spanish Honors majors are required to complete 33 credits of coursework and successfully defend a thesis:

Course Requirements:

- 11 courses (33 credits total): all regular Spanish major requirements must be completed (30 credits) with an additional 3-credit Spanish course at the 400-level. 6 of the required 33 credits (and of the required 18 credits at the 400 level) will consist of Spanish 491 and 492, Senior Honors Courses, normally taken in the fall and winter terms, respectively, of a student's senior year.

Thesis Requirement:

- Composition of a thesis, in Spanish, incorporating the results of individual research, demonstrating a substantial piece of work ; and
- A presentation and discussion of the thesis and of an agreed upon set of related readings with the student's faculty advisor and one other faculty reader.

Working under the direction of a faculty member who serves as thesis director, the student

will research the thesis, complete a bibliography and prospectus, and begin drafting the writing process while enrolled in SPANISH 491.

In the following academic term the student will enroll in SPANISH 492 and complete the thesis and its presentation and discussion.

Teaching Certificate

Students interested in obtaining a secondary teaching certificate should study the general requirements for professional preparation, which appear under the "**Teacher Certification Program**" on this website. Specific subject- area requirements for a teaching certificate can be found on the School of Education website

at: soe.umich.edu/academics/bachelors_degree_programs/uste

Spanish Language, Literature, and Culture Minor

If you are majoring in another field, the Spanish Language, Literature, and Culture minor offers you an opportunity to complement the knowledge gained in your principal field, while adding a cultural and linguistic dimension to your academic experience.

When combined with study in another field, knowledge of a Romance language will open doors to a wide variety of career and educational opportunities. Today, learning of other languages, peoples, and cultures is not only useful, it is imperative.

Effective Fall 2020

Exclusions:

A minor in Spanish Language, Literature, and Culture is not open to students with a major in Spanish or any other minor in Romance Languages and Literatures. The Department offers majors in French, Italian, Romance Languages & Literatures, and Spanish. It offers minors in French, Italian, Portuguese, and Spanish.

Advising

Appointments are scheduled **online** or at the department office, 4108 Modern Languages Building, (734) 764-5344.

Prerequisites

SPANISH 277 (or 275 & 276). The prerequisite will be waived for Residential College students who complete one RCLANG 324 readings course in Spanish.

Students who complete a second and/or a third RCLANG 324 course will receive major credit for a Spanish elective at the 300 level.

For eligible students, SPANISH 278, Spanish for Heritage Language Learners, can be substituted for SPANISH 277.

Requirements

Minimum Credits: 21

A minimum of 7 courses (21 credits) of at least 3 credits each, beyond the prerequisite, including:

- 4 courses of at least 3 credits each from SPANISH courses numbered 279 to 399
- 3 courses of at least 3 credits each from SPANISH courses at the 400-level

Students should consult a department advisor and develop a balanced program of study that includes the cultural production of various countries and historical periods.

Constraints

- Specific course selections must include three literature courses.
- Other courses, or "electives in Spanish," may be selected in Hispanic culture, linguistics, and film.
- Each course to be counted toward the minor must be at least 3 credits.
- No more than one Independent Study and one internship course (6 credits) can be included in the major/minor.
- Students may count only one of ITALIAN 410 or PORTUG 280 toward the Spanish minor.
- SPANISH 308 does not count toward the minor.

Residency

A minimum of 4 courses of at least 3 credits each for the minor must be taken either in residence or through a study- abroad program affiliated with the University of Michigan.

Statistics Major

The Statistics major prepares students for careers in industry and government as well as for graduate programs in statistics and quantitative fields. It emphasizes critical thinking and problem solving skills in data analysis and empirical research. The major includes a core set of courses in applied statistics, statistical theory, and computational statistics. Elective courses cover specific classes of statistical techniques, or focus on research areas where statistical analysis plays a major role. Statistics majors learn to apply the skills they learn to diverse application areas including medicine, finance, public policy, and information technology. Students can tailor their electives to prepare themselves for appropriate graduate programs.

Effective Winter 2023

Advising

Most statistics courses are elected after taking an introductory course (DATASCI 101, STATS 206, 250, STATS 280 or STATS 412) and completing an introductory mathematics sequence or after consulting a department department advisor. Students wishing to pursue a major in Statistics must develop a specific plan for its completion in consultation with a Statistics Department undergraduate department advisor.

Prerequisites

- Multivariable Calculus (MATH 215 or MATH 285) and Linear Algebra (MATH 214 or MATH 217)
- Introductory Programming (EECS 183)

- Introductory Statistics (DATASCI 101 or STATS 206 or STATS 250 or STATS 280 or STATS 412)

The prerequisites for the major may be taken as Pass/Fail (or P/F).

Requirements

Minimum Credits: 29

1. **Core applied statistics course:** STATS 413
2. **Core theoretical statistics courses:** STATS 425, 426.
3. **Core statistical computing course:** STATS 306.
4. **Additional advanced statistics courses:** At least three of STATS 315, 406, 415, 430, 449, 451, 470, 480, or MATH/STATS 526.
5. **Capstone course:** STATS 485
6. **Elective courses in Statistics, Mathematics, or EECS.** These are advisor approved electives. These approved courses include:
 - STATS 404
 - any 500+ level Statistics courses
 - any additional courses from #4 above
 - 400+ level *advisor-approved* MATH courses (except MATH 417 and 419)
 - 300+ level *advisor-approved* EECS course.

Students interested in the application of statistics to various disciplines such as economics, biological sciences, and psychology are also encouraged to take courses in these areas.

Residency

A minimum of fifteen (15) credits towards the major must be taken on the Ann Arbor campus.

Distribution Policy

No course used to fulfill a major requirement may be used toward the **LSA Distribution Requirement**. In addition, courses in the STATS and DATASCI subject areas may not be used toward the Distribution Requirement.

Honors

LSA Distribution Requirement Any student with a current grade point average of at least 3.4 may apply for admission to the Honors major program. Such application is made through a Statistics Department undergraduate advisor. Students in the Honors program must complete the regular major program above with the following modifications: (i) MATH 451 (Advanced Calculus I); (ii) an overall GPA of at least 3.5; (iii) STATS 499 (Senior Honors Seminar) and completion of a project or a thesis under the direction of a member of the Statistics Department faculty. Note that MATH 451 has MATH 217 as a prerequisite, so Statistics honors students should usually satisfy their linear algebra requirement by MATH 217 rather than MATH 214.

Statistics (Major) (Fall 2021 - Fall 2022)

Effective Fall 2021

Advising

Most statistics courses are elected after taking an introductory course (STATS 206, 250,

STATS 280 or STATS 412) and completing an introductory mathematics sequence or after consulting a department department advisor. Students wishing to pursue a major in Statistics must develop a specific plan for its completion in consultation with a Statistics Department undergraduate department advisor.

Prerequisites

- MATH 215 and (MATH 214 or MATH 217) (MATH 417 may not be substituted)
- EECS 183
- DATASCI 101 or STATS 206 or STATS 250 or STATS 280 or STATS 412

Requirements

Minimum Credits: 26

1. **Core applied statistics course:** STATS 413
2. **Core theoretical statistics courses:** STATS 425, 426.
3. **Core statistical computing course:** STATS 306.
4. **Additional advanced statistics courses:** At least two of STATS 315 (*FA22 or later*), 406, 415, 430, 449 (*FA22 or later*), 451, 470, 480, or MATH/STATS 526.
5. **Capstone course:** STATS 485
6. **Elective courses in Statistics, Mathematics, or EECS.** These are advisor approved electives. These approved courses include:
 - STATS 404, 408, 449
 - any 500+ level Statistics courses
 - any additional courses from #4 above
 - 400+ level *advisor-approved* MATH courses (except MATH 417 and 419)
 - 300+ level *advisor-approved* EECS course.

Students interested in the application of statistics to various disciplines such as economics, biological sciences, and psychology are also encouraged to take courses in these areas.

Residency

A minimum of fifteen (15) credits towards the major must be taken on the Ann Arbor campus.

Distribution Policy

No course used to fulfill a major requirement may be used toward the **LSA Distribution Requirement**. In addition, courses in the STATS and DATASCI subject areas may not be used toward the Distribution Requirement.

Honors

LSA Distribution Requirement Any student with a current grade point average of at least 3.4 may apply for admission to the Honors major program. Such application is made through a Statistics Department undergraduate advisor. Students in the Honors program must complete the regular major program above with the following modifications: (i) MATH 451 (Advanced Calculus I); (ii) an overall GPA of at least 3.5; (iii) STATS 499 (Senior Honors Seminar) and completion of a project or a thesis under the direction of a member of the Statistics Department faculty. Note that MATH 451 has MATH 217 as a prerequisite, so Statistics honors students should usually satisfy their linear algebra requirement by MATH 217 rather than MATH 214.

Statistics Minor

The Statistics minor program provides a general introduction to probability and statistical methodology. The minor prepares students for data analysis arising in graduate studies or professional careers.

Effective Winter 2023

Exclusions:

Academic minors in Statistics are not open to students with a Statistics major or a Data Science major.

Advising

Most statistics courses are elected after taking an introductory course (DATASCI 101 or STATS 206 or STATS 250 or STATS 280 or STATS 412) and completing an introductory mathematics sequence. Student wishing to pursue a minor in Statistics must develop a specific plan for its completion in consultation with a Statistics Department undergraduate advisor. See department website for contact information: lsa.umich.edu/stats/undergraduate-students/advising.

Prerequisites

Calculus II (MATH 116 or MATH 121 or MATH 156 or MATH 176 or MATH 186). The prerequisite for the minor may be taken as Pass/Fail (or P/F).

Requirements

Minimum Credits: 15

Core courses:

1. Introductory Statistics (DATASCI 101 or STATS 206 or STATS 250 or STATS 280 or STATS 412)
2. Statistical Computing (STATS 306 or STATS 406)
3. Linear Regression (STATS 401 or STATS 413).

Elective statistics courses: At least two advanced electives. Approved electives include STATS 315, 406, 415, 425, 426, 430, 449, 451, 470, 480.

Constraints

- One elective may be a quantitative methods course with advanced statistical content offered by another department, either from a pre-approved list or with approval from a Statistics Department undergraduate advisor.
- The following courses may not be used as electives for the Statistics Minor: STATS 404, 489 and 499.
- STATS 412 may be used as a core course, but not as an elective.

Residency

At least four of the five courses used to meet the minor requirements must be taken within the University of Michigan's Statistics Department.

Statistics (Minor) (Winter 2022 - Fall 2022)

Effective Winter 2022

Exclusions:

Academic minors in Statistics are not open to students with a Statistics major, a Data Science major or any other minor in Statistics.

Advising

Most statistics courses are elected after taking an introductory course (DATASCI 101 or STATS 206 or STATS 250 or STATS 280 or STATS 412) and completing an introductory mathematics sequence. Student wishing to pursue a minor in Statistics must develop a specific plan for its completion in consultation with a Statistics Department undergraduate advisor. See department website for contact information: lsa.umich.edu/stats/undergraduate-students/advising.

Prerequisites

- MATH 215.

Requirements

Minimum Credits: 15

1. **Core courses:** (DATASCI 101 or STATS 206 or STATS 250 or STATS 280 or STATS 412), and STATS 306 and STATS 425.
2. **Elective statistics courses:** At least two statistics advanced electives approved by a Statistics Department undergraduate department advisor.

Constraints

- One elective may be a quantitative methods course with advanced statistical content offered by another department, with approval from a Statistics Department undergraduate department advisor.
- The following courses may not be used as electives for the Statistics minor: STATS 400, 404, 489, 499.
- STATS 412 may be used as a core course, but not as an elective.

Residency

At least four of the five courses used to meet the minor requirements must be taken within the University of Michigan's Statistics Department.

Sustainability Minor

Sustainability, although dealing directly and intimately with environmental issues, has as its core goal the development of systems of human behavior to enable both current and future generations to maintain a quality of life that is both productive and pleasing. To achieve such a goal requires an interdisciplinary approach to answer a variety of questions such that human needs and desires can best be met:

- How do groups and individuals compete or cooperate in the distribution of scarce resources? How can open, fair and effective governance structures be better developed and implemented to promote sustainable consumption?
- How can economies be modified to incorporate the value of ecosystem services critical for human well-being? What future business models can be developed that more quickly identify and respond to human needs while simultaneously minimizing consumption and maximizing wealth generation?
- How do various environments at different length scales (local, regional, continental, and global) respond to anthropogenic alterations due to resource consumption and waste generation? What is the time scale for such alterations to become visible, and perhaps irreversible? How can human societies best adapt to such changes?
- How do natural systems respond to changing anthropogenic inputs? What are the determinants of sustainable yield? What feedback cycles between natural and human systems determine health and welfare of humans and their domesticated biota?
- What is the role of technology and design in meeting sustainability goals, particularly in urban environments where the majority of the human population currently lives? How can goods and services best be provided such that a high standard of living can be achieved while minimizing resource use and waste generation?

The objectives of the sustainability minor are to:

1. educate students from across campus on interdisciplinary approaches of historic and emergent sustainability problems
2. engage students in team projects examining real-world problems both on and off-campus
3. provide students practical experiences/leadership experiences that enable them to integrate their skills to address complex sustainability problems.

As part of the minor activities, the challenges of crafting a suitable definition of sustainability will be highlighted. This will be part of developing understanding of the need for clear and effective communication across disciplines, which will be stressed to ensure effective teamwork is pursued such that the interdisciplinary whole is greater than the sum of individual disciplinary efforts.

Effective Fall 2022

Exclusions:

Students can either pursue an Academic Minor in the Environment or the Academic Minor in Sustainability, but not both.

A minor in Sustainability is not open to students in the School of Natural Resources and Environment, nor to those pursuing a minor in the Environment.

Students who are electing a minor in Sustainability are excluded from earning the Sustainability Scholars Certificate (i.e. Supplemental Studies in Sustainability).

Advising

Students interested in declaring either a major or a minor must attend an information session.

Information sessions are held throughout the Fall and Winter terms. Appointments may be scheduled with Program advisors on-line at: www.lsa.umich.edu/pite/academics/advising
Students wishing to pursue a minor in the Program in the Environment must develop a specific plan for its completion in consultation with the program's academic advisor.

Prerequisites

None for the minor *per se*, although individual courses elected to meet the requirements of the minor may have course prerequisites.

Requirements

Minimum Credits: 18

At least 9 of the 18 credits must be at the 300-level or above.

1. **Introductory Sustainability Course:** ENVIRON 109, ENVIRON 111, ENVIRON 207, or ENVIRON 208
2. **Practical/Field Experience Course:** Students pursuing the Academic Minor in Sustainability are required to spend time off-campus participating in a pre-approved Internship or Field Experience/Study Abroad Course. This provides students with an opportunity to have greater exposure to sustainability issue(s) and develop greater skills in identifying and helping to resolve current and emerging sustainability issue(s).

The following courses have been pre-approved, but students may petition other courses to meet this requirement prior to enrollment, with approval granted by PitE if the course is deemed to have suitably focused on sustainability issues. *Any petitions must be received and approved before enrolling in these courses.* Courses with emphasis on basic aspects of environmental, social, and natural sciences and humanities are not acceptable to meet this requirement.

- o ENVIRON 245: Interdisciplinary Environmental Topics, *section titled "Campus as Sustainability Lab"*
- o ENVIRON 302: Topics in Environmental Social Science, *sections titled "Sustainable Neighborhoods: Experiential Learning and Active Engagement in Detroit" and "Assessing Sustainability Culture"*
- o ENVIRON 303: Topics in Environmental Natural Science, *section titled "Urban Ecology on Campus"*
- o ENVIRON / ORGSTUDY / RCIDIV 391: Sustainability and the Campus
- o ENVIRON 398: Environment Internship Program
- o ENVIRON 465: Interdisciplinary Environmental Topics, *section titled "Campus Farm Ecological and Organic Farming Practicum"*
- o EARTH 344 / ENVIRON 344: Sustainable and Fossil Energy: Options and Consequences
- o STDABRD 303: UM at Institute for Central American Development Studies, San Jose, Costa Rica
- o STDABRD 308: UM at EcoQuest New Zealand
- o STDABRD 358 UM/CIC Political Science Internships in British Government and Politics, London, England
- o STDABRD 452: UM at St. Peter's College, Oxford, England

- STDABRD 471: UM at Middle East Technical University, Ankara, Turkey
3. **Capstone Course /Design Experience.** At least one upper-division course addressing major sustainability issues in settings with small sections emphasizing discussion and drawing on interdisciplinary experiences of students.
- ARCH / URP 423 / ENVIRON 370: Introduction to Urban and Environmental Planning
 - CEE 307 / ENVIRON 407: Sustainable Cities
 - ENVIRON 302: Topics in Environmental Social Science, *section titled "Sustainable Neighborhoods: Experiential Learning and Active Engagement in Detroit"*
 - ENVIRON 306: Global Water
 - ENVIRON 308: Sustainability and Health
 - ENVIRON 310: Toxicology: The Study of Environmental Chemicals and Disease
 - ENVIRON 320: Environmental Journalism: Reporting About Science, Policy, and Public Health
 - ENVIRON 350: The Built Environment: Introduction to Landscape Change
 - ENVIRON 376: Environmental Ethics-Living Well with Nature
 - ENVIRON 380: Natural Resources, Economics, and the Environment
 - ENVIRON 390: Environmental Activism: Citizenship in a Republic
 - ENVIRON 391 / RCIDIV 391: Sustainable Campus
 - ENVIRON 403: Introduction to GIS in the Earth Sciences
 - ENVIRON 405: Urban Sprawl: Policy and Politics
 - ENVIRON 407 / CEE 307: Sustainable Cities
 - ENVIRON 408: Land Use Policy, Law, and the Environment
 - ENVIRON 411: Principles of Geographic Information Systems
 - ENVIRON / ORGSTUDY 419: Business, Sustainability, and Justice
 - ENVIRON 421: Restoration Ecology
 - ENVIRON 434: Poverty and the Environment in the US and Colombia: Learning through Podcast Creation
 - ENVIRON 441: Remote Sensing of Environment
 - ENVIRON 465: Interdisciplinary Environmental Topics, *section titled "Communicating Sustainability in the Digital Age"*
 - RCIDIV 391 / ENVIRON 391: Sustainable Campus
4. **Distribution Requirement:** Students must take courses from a pre-approved in at least three of five areas (see below). Courses with emphasis on basic aspects of environmental social and natural sciences and humanities are not acceptable to meet these requirements.

Distribution Courses:

A. Society, Culture, Justice and Citizenship

- AMCULT 333: Green Indigeneity
- AMCULT 496: Social Science Approaches to American Culture, *section titled "American Values and Sustainability"*
- ANTHRCUL 254: The Anthropology of Food
- ANTHRCUL 256 / ENVIRON 256: Culture, Adaptation and Environment
- ANTHRCUL 439: Economic Anthropology and Development
- ASIAN 335: Himalayas: An Aesthetic Exploration

- EDCURINS 382 / ENVIRON 382: Intro to Environmental Education and Sustainable Development
- ENGLISH 307: Clothing, Race, and Environment
- ENGLISH 320: Literature and the Environment or ENVIRON 377: Literature and the Environment
- ENVIRON 204: Water and Society
- ENVIRON 209: Introduction to Political Ecology
- ENVIRON 211: Social Sciences and Environmental Problems
- ENVIRON 222: Introduction to Environmental Justice
- ENVIRON 236: Environment and History in Preindustrial Europe
- ENVIRON 256 / ANTHRCUL 256: Culture, Adaptation and Environment
- ENVIRON 304: Topics in Culture and Environment
- ENVIRON 320: Environmental Journalism: Reporting about Science, Policy and Public Health
- ENVIRON 321: Climate Change and Adaptation
- ENVIRON 350: The Built Environment: Introduction to Landscape Change
- ENVIRON 355: Southern Natures: The Making and Unmaking of Races and Environments in the US South
- ENVIRON 360 / PSYCH 384: Behavior and Environment
- ENVIRON 361 / PSYCH 385: The Psychology of Environmental Stewardship, or NRE 561: The Psychology of Environmental Stewardship
- ENVIRON 376: Environmental Ethics
- ENVIRON 377: Literature and the Environment, or ENGLISH 320: Literature and the Environment
- ENVIRON 382 / EDCURINS 382: Intro to Environmental Education and Sustainable Development
- ENVIRON 387: Ecology and Religion
- ENVIRON 390: Environmental Activism: Citizenship in a Republic
- ENVIRON 413: Environmental Communication
- ENVIRON 475: Environmental Law
- ENVIRON 484: Localization: Transitional Thinking for the New Normal
- JAZZ 450: Contemplative Practice Seminar
- NRE 501: Grad Experimental, *section titled "Justice Issues in Conservation and Sustainability"*
- NRE 561: The Psychology of Environmental Stewardship, or ENVIRON 361 / PSYCH 385: The Psychology of Environmental Stewardship
- PHIL 240: Environmental Ethics
- PHIL 250: Changing the World
- PHIL 355: Contemporary Moral Problems
- PHIL 361: Ethics
- PSYCH 384 / ENVIRON 360: Behavior and Environment
- PSYCH 385 / ENVIRON 361: The Psychology of Environmental Stewardship, or NRE 561: The Psychology of Environmental Stewardship
- SOC 415: Culture and Consumption
- WGS/SOC 216: Thinking Class: Inequality in Media, Bodies, Environment, and More

B. Business and Economics

- BE 401: Economics of Sustainability
- BIT 445 / STRATEGY 445: Base of the Pyramid: Business Innovation for Solving Society's Problems
- CEE 588: Sustainability Finance
- EARTH 380 / ENVIRON 380: Mineral Resources, Economics, and the Environment
- EAS 527: Energy Markets and Energy Politics
- ECON 330: American Industries
- ECON 370: Environmental and Resource Economics
- ECON 380: Public Finance
- ENGR 390: Special Topics, *section titled "Social Entrepreneurship"*
- ENGR 521: Clean Tech Entrepreneurship
- ENVIRON 208: Business and the Natural Environment
- ENVIRON 235: Environmental Economics, Policy, and Justice
- ENVIRON 380 / EARTH 380: Mineral Resources, Economics, and the Environment
- ENVIRON 391: Sustainability and the Campus
- PUBPOL 250: Social Systems, Energy, and Public Policy
- SOC 315: Economic Sociology
- STRATEGY 310: World Economy
- STRATEGY 400: Strategies for Sustainable Development
- STRATEGY 411: The Corporation in Society
- STRATEGY 445 / BIT 445: Base of the Pyramid: Business Innovation for Solving Society's Problems

C. Public Policy, Urban Planning, and Law

- AAS 426: Urban Redevelopment and Social Justice
- AOSS 480 / NRE 480: Climate Change: The Move to Action
- ARCH 357: Architecture, Sustainability, and the City
- ARCH 423 / ENVIRON 370 / UP 423: Introduction to Urban and Environmental Planning
- CMPLXSYS 391 / POLSCI 391: Applied Complex Systems: Emergent Challenges
- EEB 318 / ENVIRON 318 / RCIDIV 318: Food, Land and Society
- EHS 588 / ENVIRON 475 / NRE 475: Environmental Law
- ENVIRON 270: Our Common Future - The Ecology, Economics and Ethics of Sustainable Development
- ENVIRON 306: Global Water
- ENVIRON 312 / POLSCI 380: Environmental Politics and Policy
- ENVIRON 318 / EEB 318 / RCIDIV 318: Food, Land, and Society
- ENVIRON 350: The Built Environment: Introduction to Landscape Change
- ENVIRON 365: International Environmental Policy
- ENVIRON 370 / ARCH 423 / UP 423: Introduction to Urban and Environmental Planning
- ENVIRON 405: Urban Sprawl: Policy and Politics
- ENVIRON 407: Sustainable Cities
- ENVIRON 408: Land Use Policy, Law, and the Environment

- ENVIRON 412: Environmental Values in Public Policy
- ENVIRON 413: Environmental Communication
- ENVIRON 449 / NRE 449: Organizational Theory and Change
- ENVIRON 475 / EHS 588 / NRE 475: Environmental Law
- ENVIRON 484: Localization: Transitional Thinking for the New Normal
- NRE 449 / ENVIRON 449: Organizational Theory and Change
- NRE 475 / ENVIRON 475 / EHS 588: Environmental Law
- NRE 480 / AOSS 480: Climate Change: The Move to Action
- NRE 501: Grad Experimental, *section titled "Urban Agriculture"*
- PHYSICS 481 / PUBPOL 481: Science, Technology, and Public Policy
- POLSCI 380 / ENVIRON 312: Environmental Politics and Policy
- POLSCI 391/ CMPLXSYS 391: Applied Complex Systems: Emergent Challenges
- PUBPOL 201: Systematic Thinking About Problems of the Day
- PUBPOL 250: Social Systems, Energy, and Public Policy
- PUBPOL 481 / PHYSICS 481: Science, Technology, and Public Policy
- RCIDIV 302: Advanced Issues in Science, Technology, Medicine, and Society, *section titled "Environmental Literature/Social Justice"*
- RCIDIV 318 / ENVIRON 318 / EEB 318: Food, Land, and Society
- UP 423 / ARCH 423 / ENVIRON 370: Introduction to Urban and Environmental Planning
- UP 425: Urban Systems

D. Natural Sciences & Public Health

- AAS 409 / ANTHRCUL 408: Maternal/Child Health and Environmental Pollution in Africa
- ANTHRCUL 344: Medical Anthropology
- ANTHRCUL 408 / AAS 409: Maternal/Child Health and Environmental Pollution in Africa
- CEE 265: Sustainable Engineering Principles
- CEE 586: Industrial Ecology
- CEE 590: Stream, Lake, and Estuary Analysis
- CLIMATE 463: Air Pollution Meteorology
- EARTH 201: Introduction Physical Geography
- EARTH 205: How the Earth Works: The Dynamic Planet
- EARTH 240: Primitive Navigation and Wayfinding in the Natural World
- EARTH 255: Introduction to Astronomy, Geology, and Climate Science
- EARTH 325: Environmental Geochemistry
- EARTH 331: Climate and Climate Change
- EARTH 380 / ENVIRON 380: Mineral Resources, Economics, and the Environment
- EARTH 408: Introduction to GIS in the Earth Sciences
- EARTH 417: Geology of the Great Lakes
- EAS 541: Remote Sensing of Environment
- EHS 500: Principles of Environmental Health Science
- EHS 570: Water Quality Management
- ENVIRON 201: Ecological Issues
- ENVIRON 204: Under Pressure: Water Systems, Society, and the Environment

- ENVIRON 206: How the Earth Works: The Water Cycle and Environment
- ENVIRON 229: Introduction to Environmental Science
- ENVIRON 232: Introductory Oceanography
- ENVIRON 262: Plants and People
- ENVIRON 308: Sustainability and Health
- ENVIRON 310: Toxicology: The Study of Environmental Chemicals and Disease
- ENVIRON 317: Conservation of Biological Diversity
- ENVIRON 320: Environmental Journalism: Reporting About Science, Policy, and Public Health
- ENVIRON 321: Climate Change and Adaptation
- ENVIRON 333: The Inexhaustible Seas? Marine Resources and Environmental Issues
- ENVIRON 380 / EARTH 380: Mineral Resources, Economics, and the Environment
- ENVIRON 411: Principles of Geographic Information Systems
- ENVIRON 421: Restoration Ecology
- HISTORY 285: Science, Technology, Medicine, and Society
- HMP 200 / PUBHLTH 200 / PUBPOL 210: Health and Society: Introduction to Public Health
- PHYSICS 210: Sustainable Energy Futures
- PUBHLTH 200 / HMP 200 / PUBPOL 210: Health and Society: Introduction to Public Health
- PUBHLTH 305: The Environment and Human Health
- PUBHLTH 309: Hunger in America: Building Skills to Feed Communities
- PUBHLTH 310: Nutrition in the Life Cycle
- PUBHLTH 350: Global Public Health: Challenges and Transformations
- PUBHLTH 360: Community, Culture, and Social Justice in Public Health
- PUBHLTH 382: Population Health Determinants and Disparities
- PUBPOL 210 / PUBHLTH 200 / HMP 200: Health and Society: Introduction to Public Health

E. Technology, Engineering, and Design

- ANTHRBIO 473: Mechanisms of Human Adaptation
- ARCH 357 / UP 357: Architecture, Sustainability, and the City: Ideas, Forces, and People
- ARTDES 250: Art-Design Perspectives III: Technology and the Environment
- AUTO 533 / MECHENG 433: Advanced Energy Solutions
- CEE 265: Sustainable Engineering Principles
- CEE 567 / ESENG 567: Energy Infrastructure Systems
- CMPLXSYS 250 / PUBPOL 250: Social Systems, Energy, and Public Policy
- CMPLXSYS 270: Introduction to Agent-Based Modeling
- EARTH 408: Introduction to GIS in the Earth Sciences
- EAS 541: Remote Sensing of Environment
- ENVIRON 309: GIS Explorations of the Past, Present, and Future
- ENVIRON 367: Global Enterprise and Sustainable Development
- ENVIRON 407: Sustainable Cities
- ENVIRON 411: Principles of Geographic Information Systems

- HISTORY 285: Science, Technology, Medicine, and Society
- MECHENG 433 / AUTO 533: Advanced Energy Solutions
- NERS 211: Introduction to Nuclear Engineering and Radiological Sciences
- NRE 574 / PUBPOL 519 / RCNSCI 419: Sustainable Energy Systems
- PHYSICS 210: Sustainable Energy Futures
- PUBPOL 250 / CMPLXSYS 250: Social Systems, Energy, and Public Policy
- PUBPOL 519 / NRE 574 / RCNSCI 419: Sustainable Energy Systems
- RCNSCI 419 / NRE 574 / PUBPOL 519: Sustainable Energy Systems
- UP 357 / ARCH 357: Architecture, Sustainability and the City: Ideas, Forces, and People

Theatre Design and Production Minor

Creating theatre is about people working together. In all of our endeavors, we continually strive toward the highest standards of excellence. Work in the Theatre Department requires enormous energy and dedication. Programs are structured to help each student realize his or her unique potential. Development of skills is systematic and disciplined, and opportunities to explore individual creativity are enormous. The Design & Production faculty are working professionals with extensive theater credits. It is the expectation of the faculty that all students should excel in their course work.

D&P core courses cover all facets of design and production, including aesthetics, theory, history, literature, graphics, technology and crafts. **NOTE: Permission of Instructor is necessary for all courses.** In addition to classroom study, you'll work on shop and crew assignments to hone your skills.

The School of Music, Theatre, & Dance produces 10 main stage productions each year. These productions are realized by the staff of University Productions, which is organized on the model of a professional theatre company. By working on productions, students gain valuable experience which serves as a foundation for a resume and portfolio. Through work in the shops, students benefit from “in the field” experience with our professional staff, who teach within this shop setting, as well as in the classroom.

All university productions are built by the staff and students in our shops. Through a series of structured practicum assignments, our students are intimately involved in all levels of this production work. Practicum assignments are made individually for each student by the D&P faculty and staff. Selection of assignments is based on consideration of the student’s skills and abilities, interests and needs, and class performance, as well as on the needs of each production and workshop. We strongly encourage that students register for only one practicum per semester. The number of credit hours per practicum varies, based on practicum level. The student should expect to work between 45-60 hours per credit hour, although a practicum course is generally assigned on a per-project basis. For shop assignments, the hours are generally concentrated into a 4- to 6-week build schedule. For design assignments, the time commitment is similarly concentrated. Applying and Advising: Students interested in the Theatre Design and Production minor should contact Professor Christianne Myers. Students enrolled in the Theatre Department’s current degree programs (Performance, Directing, and the BTA) are not eligible for this minor,

nor are the students majoring in the BFA in Interarts Performance degree program.

Requirements: **Students will choose one of the five Design and Production tracks listed below, and confine their studies to that area.** Students interested in this program must take two classes listed in their area of interest to become eligible for this program. At that point, the student would interview with the Design and Production faculty. Students must secure written approval from their home school/college to pursue a Design and Production minor and must develop a plan for the minor in consultation with an advisor in the Design and Production program.

Scenic Design

THEATRE 260: Scene Design I (3 credits)

THEATRE 360: Scene Design II (3 credits)

THEATRE 462: Drafting (3 credits)

THEATRE 463: Intro to CAD (3 credits)

THEATRE 464: Scene Painting (3 credits)

Minimum three additional credits elected from the following Practicum courses:

THEATRE 251: Practicum I (1 credit)

THEATRE 252: Practicum II (1 credit)

THEATRE 261: Practicum III (1 credit)

THEATRE 262: Practicum IV (1 credit)

Costume Design

THEATRE 263: Rendering (3 credits)

THEATRE 277 or 478: History of Dress or History of 20th Century Dress (3 credits)

THEATRE 270: Costume Design I (3 credits)

THEATRE 370: Costume Design II (3 credits)

Minimum six additional credits to be chosen from the following:

THEATRE 470: Costume Design III (3 credits)

THEATRE 476: Costume Crafts (3 credits)

THEATRE 452: Costume Construction (3 credits)

THEATRE 471: Women's Pattern Drafting (3 credits)

THEATRE 571: Men's Pattern Drafting (3 credits)

THEATRE 162: Introduction to Stage Make-up (1 credit)

THEATRE 251, 252: Production Practicum (1 credit)

Lighting Design

THEATRE 245: Introduction to Stage Management (3 credits)

THEATRE 256: Introduction to Stage Lighting (3 credits)

THEATRE 356: Lighting Design II (3 credits)

THEATRE 456: Lighting Design III (3 credits)

Minimum five additional credits elected from the following Practicum courses:

THEATRE 251: Practicum I (1 credit)

THEATRE 252: Practicum II (1 credit)

THEATRE 261: Practicum III (1 credit)
THEATRE 262: Practicum IV (1 credit)
THEATRE 351: Practicum V (1-3 credits)
THEATRE 352: Practicum VI (1-3 credits)
THEATRE 451: Practicum VII (2-3 credits)
THEATRE 452: Practicum VIII (2-3 credits)

Stage Management

THEATRE 245: Introduction to Stage Management (3 credits)
THEATRE 250: Introduction to Technical Theatre Practices (3 credits)
THEATRE 321 or 322: History of Theatre I or History of Theatre II (3 credits)
THEATRE 351: Practicum V; 1st ASM (3 credits)

Minimum six additional credits to be chosen from the following:

THEATRE 101: Introduction to Acting (3 credits)
THEATRE 240: Introduction to Design (3 credits)
THEATRE 345: Stage Managing Plays (3 credits)
THEATRE 385: Performing Arts Management (3 credits)
THEATRE 435: Producing in American Theatre (3 credits)
THEATRE 446: Advanced Stage Management (3 credits)
THEATRE 462: Drafting (3 credits)

Production

THEATRE 245: Introduction to Stage Management (3 credits)
THEATRE 250: Introduction to Technical Theatre Practices (3 credits)
THEATRE 251: Practicum I (1 credit)
THEATRE 252: Practicum II (1 credit)
THEATRE 261: Practicum III (1 credit)

Minimum nine additional credits to be chosen from the following:

THEATRE 256: Introduction to Stage Lighting (3 credits)
THEATRE 262: Practicum IV (1 credit)
THEATRE 350: Scenic Construction (3 credits)
THEATRE 445: Stage Management for Operas and Musicals (2-6 credits)
THEATRE 450: Scenic Construction II (3 credits)
THEATRE 452: Costume Construction (3 credits)
THEATRE 462: Drafting (3 credits)
THEATRE 463: Intro to CAD (3 credits)
THEATRE 464: Scene Painting (3 credits)
THEATRE 471: Women's Pattern Drafting (3 credits)
THEATRE 476: Costume Crafts (3 credits)

Translation Studies Minor

The Minor in Translation Studies gives students an opportunity to learn about diverse histories, theories, and practices of translation, through a flexible sequence of courses selected from

different departments, including at least one translation course in the Department of Comparative Literature.

The minor is intended for students who would like to build on LSA's language requirement to explore translation between languages; it is also designed with flexibility for students who would like to explore the concept of translation more broadly as an interaction between cultures, media, discourses, and disciplines. The minor can therefore be integrated into diverse programs of study.

The goals of the minor are:

1. to make translation more visible to students in their courses, their communities, and in the world at large;
2. to promote critical and creative reflection on translation, and encourage students to pursue various translation activities;
3. to introduce students to a wide range of academic, creative, and career opportunities related to translation.

While the Minor in Translation Studies is not intended to certify students as professional translators or interpreters, the minor may prepare students to pursue certification or other professional credentials in translation after graduation.

Effective Winter 2014

Advising

The Chair of the Department of Comparative Literature will designate a faculty member to serve as Translation Studies advisor.

During their first meeting, the student and the Translation Studies advisor will devise a plan to satisfy the requirements. Any changes to the plan must be approved by the Translation Studies Adviser, who will provide ongoing advising regarding course selection and planning for the capstone project.

The role of the advisor will be:

1. to provide information for students who are interested in applying for the minor
2. to meet at least once a term with students who are accepted to the minor to discuss progress on their approved course plan
3. to review changes and petitions for approval in individual course plans
4. to help coordinate plans for capstone translation projects.

Grade Policies

No course will count towards the academic minor in translation studies unless the student receives a grade of C- or better.

Prerequisites

None.

Requirements

Minimum Credits: 15

During their first meeting, the student and the Translation Studies advisor will devise a plan to satisfy the requirements. Any changes to the plan must be approved by the Translation Studies advisor, who will provide ongoing advising regarding course selection and planning for the capstone project.

The Minor in Translation Studies requires:

A minimum of 15 credits of courses, at least two courses in Comparative Literature, and a minimum of 12 credits in upper-level courses.

- **3 credits:** either *COMPLIT 200: Translation Across Disciplines* or *COMPLIT 322: Translating World Literatures*.
- **3 credits:** An upper-level course (taught at the University of Michigan or taken for credit during Study Abroad) that develops skills in a language that the student will use for the capstone translation project. As a rule, an approved course plan for the Minor in Translation Studies will include at least one upper-level course in a second language. However, students interested in translating across different media, technologies, or disciplines may petition for exception to the language rule, by proposing an upper-level course that develops other skills relevant to the capstone translation project.
- **6 credits:** two upper-level courses with a central component on translation (taught in any department at the University of Michigan, or taken for credit during Study Abroad). Students may select courses from a pre-approved list, or propose courses for approval (with an explanation of the translation component and its relevance to their course plan for the Minor).
- **3 credits:** A capstone translation project, completed either while taking *COMPLIT 495: Senior Seminar* (offered every fall) or as a 3-credit Independent Study (in exceptional cases, with prior approval).

Ukrainian Language, Literature, and Culture Minor

An academic minor in Ukrainian Language, Literature, and Culture would provide to students already engaged with the language an opportunity to expand their knowledge and understanding of Ukrainian culture in the broader context of European society as a whole.

The academic minor in Ukrainian is a vibrant and multi-faceted program that integrates Ukrainian studies into broader intellectual and policy agendas, while promoting research and scholarly work on contemporary Ukraine in the United States. Its curriculum will educate students on the history, language, literature, and politics of Ukraine. In addition, study of Ukraine brings an important comparative perspective to international and interdisciplinary studies at the University of Michigan, as the Ukraine has historically been viewed as a meeting place of several major cultures: East Slavic, Jewish, Austro-Hungarian, and others.

This program could be of particular interest to undergraduate students in concentrations like Judaic Studies, History, the Program in the Environment, Political Science, and Sociology.

Ukraine's highly educated population (seventh in Europe), natural wealth, size (second largest state in Europe), and location in the borderland between Europe and Asia and in between Poland and Russia, make it an important country both regionally and globally. With Ukraine's recent independence, it is an important time to introduce a broader audience the rich legacy of Ukrainian literature, history and culture. Ukraine now occupies a vital but often ambiguous strategic position as an independent country important to the security and stability of all of Europe. Ukraine's changing boundaries over the centuries gives us a completely different view of the culture of the post-Soviet years, and now in the expansion of the EU.

The latest achievements of inner freedom and the recognition of a diversity of cultures in Ukraine have become the main means for fostering research and academic contacts between Ukraine and the U.S. Ukraine is engaged in the global processes of state building, creation of a market economy, and social changes. Ukraine's democratic "Orange Revolution" has led to closer cooperation and more open dialogue between Ukraine and the United States.

The EU is seeking an increasingly close relationship with Ukraine, going beyond co-operation, to gradual economic integration and a deepening of political co-operation. NATO and the Ukraine actively cooperate in international peace-support operations and have developed practical cooperation in a wide range of other areas. In May 2008 Ukraine became a member of the World Trade Organization and has since engaged in negotiations for the establishment of a deep and comprehensive Free Trade Area.

Effective Fall 2012

Exclusions:

Academic minors in Slavic Languages and Literatures are not open to those electing a concentration or any other academic minor in the department of Slavic Languages and Literatures, nor to those who are electing a concentration in Russian, East European, and Eurasian Studies.

Students could concurrently pursue this academic minor with one in REES with the following restrictions:

- (1). REES academic minors may not count any course for which Slavic is the home unit.*
- (2). Slavic academic minors may not count REES 397 or any course for which REES is the home unit, which includes SLAVIC 395 and 396.*

Advising

Students wishing to pursue an academic minor in the Department of Slavic Languages and Literatures must develop a specific plan for its completion in consultation with Svitlana Rogovyk (Language Coordinator)

Appointments are scheduled online at www.lsa.umich.edu/slavic/undergraduate/advising

Prerequisites

UKR 251: Second-Year Ukrainian (with a grade of "C" or better) or equivalent as determined by the Departmental placement examination.

Requirements

Minimum Credits: 16

1. UKR 252: Second-Year Ukrainian
2. 12 credits in courses selected from the following two categories, with at least 6 credits from Category A.
 - A. **Category A:** Ukrainian Language, Literature, and Culture
 - UKR 320: Ukrainian Poetry
 - UKR 351: 3rd Year Ukrainian I
 - UKR 352: 3rd Year Ukrainian II
 - UKR 421: Directed Readings in Ukrainian Literature
 - SLAVIC 290: Studies in E European Culture, *section titled "Cultures of Ukraine" (F17)*
 - SLAVIC 490: Issues in the Cultures of Eastern Europe, *section titled: "Introduction to Ukrainian Culture"*
 - UKR 320: Introduction to Ukrainian Poetry
 - B. **Category B:** Eastern European Slavic Culture (*No more than 6 credits from this category*)
 - HISTORY 432: Medieval and Early Modern Russia
 - RUSSIAN 435: Cultural History of Russian Jews
 - SLAVIC 240: Slavic Folklore
 - SLAVIC 261: Introduction to Baltic Cultures
 - SLAVIC 270 / JUDAIC 271: Contact and Conflict: Jewish Experience in Eastern Europe
 - SLAVIC 290: Studies in Eastern European Cultures, *sections titled: "Revolution in the Attic" or "Rock Kills Communism" or "Russian Jews under Tsars & Soviets: Literature, Arts and Film"*
 - SLAVIC 313: Russian and Ukrainian Cinema
 - HISTORY 332 / POLSCI 395 / REEES 395 / SLAVIC 395 / SOC 392: Russia and the Soviet Union *section titled "Survey of Russia"*
 - SLAVIC 490: Issues in the Cultures of Eastern Europe, *section titled: "Rock Kills Communism" or "Revolution in the Attic"*

(Up to 3 Credits) Study Abroad, Summer Internships in Ukraine and/or Field Work in Ukrainian Communities of Metro Detroit.

The Department offers help in negotiating summer internships with companies in Ukraine or within local Ukrainian communities.

Urban Studies Minor

Urban Studies is an interdisciplinary minor that allows students to explore varied and multiple dimensions of urban life through differing theoretical approaches. A central goal of the Urban Studies minor is to facilitate students' active engagement with urban environments while fostering integration of practical experience with classroom instruction. In addition to coursework in the social sciences and humanities, the minor combines theoretical and analytical concepts from African American Studies, social work, urban planning, and other fields to help students understand the history, strengths, and challenges of urban life and to

expand their capacity for civic engagement and work in urban settings. The Urban Studies minor is open to students in all schools and colleges at UM.

Effective Winter 2022

Advising

1813 East Quadrangle

(734) 647-2745

www.lsa.umich.edu/rc

The Residential College (RC) is a four-year undergraduate liberal arts program with about 900 students and 60 faculty, situated within LSA. All RC advisors are RC faculty members and are available to meet with students to discuss RC and LSA requirements, possible majors, graduation requirements, etc. The RC **Board on Academic Standing** considers petitions submitted by RC students relating to requirements, deadlines, and academic circumstances. Appointments with academic advisors can be scheduled by calling the RC Academic Services Office at (734) 647-2745 or by stopping by the offices at 1813 East Quadrangle.

RC academic minors are open to all LSA students

Students wishing to pursue an academic minor must develop a specific plan for its completion in consultation with the program's designated advisor.

Prerequisites

None for the minor *per se*, although individual courses elected to meet the requirements of the minor may have course prerequisites.

Requirements

Minimum Credits: 15

A minimum of 5 courses (at least 15 credits), to be elected from categories as stated:

1. **Core Course:** One of the following:
 - RCSTP 330: Living for the City: Black Study and Urban Transformation
 - URP 423 Introduction to Urban and Environmental Planning
1. **Electives.** Each student will select four electives (no more than one course below the 300 level) from three Categories of courses: **Group A** (Theory / Perspectives), **Group B** (Policy / Technique) and **Group C** (Applications / Practice). No more than two electives may be selected from any one group. *Elective courses at the 500 level are acceptable and students in the Urban Studies minor are welcome to take them, but often must request permission to register.
2. **Semester in Detroit:** Students who participate in the semester in Detroit Program (SiD) during the fall semester will complete the minor if they also complete the core course. Those who complete the spring SiD Program will fulfill the minor after completing two courses, one of which must be the core course and the other from approved courses for the minor

*Note: Despite regular updates of eligible courses for the minor, new courses continue to be developed. The Urban Studies minor advisor can review courses not on this list for possible inclusion in the minor. You can search for courses via the LSA Course Guide

(<https://www.lsa.umich.edu/cg/>) and the course listings on the College of Architecture & Urban Planning website (<https://taubmancollege.umich.edu/urbanplanning/students/course-list>).

Group A Theory/Perspectives - Courses that present intellectual background for the study of urban communities. Drawn from African American Studies, Sociology, American Culture, and other disciplines, these courses introduce students to disciplinary and theoretical perspectives on community formation and urban life, and they provide opportunities for students to think through differing and at times competing analytical approaches.

- AAS 347 / RCSTP 343 / SOC 335 - Urban Inequality in America
- AAS 358 - Topics in Black World Studies (*Select sections of this course may be eligible with advisor approval*)
- AAS 426 - Cities in Contemporary Africa
- AAS 458 - Issues in Black World Studies (*Select sections of this course may be eligible with advisor approval*)
- AMCULT 204 / ASIANPAM 204 - Themes in American Culture, *section titled, "New Immigrants and the Rust Belt"* (*Other sections of this course may be eligible with advisor approval*)
- AMCULT 212 - Motor Nation: Car Cultures, Race, and Gender
- AMCULT 433 - Made in Detroit: A History of Art and Culture in the Motor City
- ANTHRCUL 353 / AAS 353 - Urban Ethnography and the Black Experience
- ANTHRCUL 356 / AAS 498 - Topics in Sociocultural Anthropology, *section titled, "Filming the Future of Detroit"* (*Other sections of this course may be eligible with advisor approval*)
- ANTHRCUL / WGS 446 (WOMENSTD 446) - Sex and the City: Urban Geography and Sexual Locations
- ANTHRCUL 458 - Topics in Sociocultural and Linguistic Anthropology, *section titled, "Urban East Asia in the Twenty-First Century"* (*Other sections of this course may be eligible with advisor approval*)
- ARCH 215 / HISTART 215 - Building Business: Corporations, Architecture, and the Built Environment from the Medici to McDonalds
- ARCH 409 / HISTART 476 - Special Topics in Architecture, *section titled, "Urban Fragments: The Americas"*
- ASIAN 257 - Great Cities in Asia: Beijing, Osaka, Seoul, Shanghai, and Edo/Tokyo
- ASIAN 378 - Seoul: History and Places
- ASIAN 424 / HISTORY 424 - Topics in Modern South Asian History, *section titled, "The City in South Asia"*
- ASIAN 480 - Topics in Asian Studies, *section titled, "Making Places in Seoul"*
- CLARCH 440 / HISTART 440 - Cities and Sanctuaries of Classical Greece
- CLCIV 470 - Upper Level Topics in Antiquity, *section titled, "Cities & Sanctuaries in Ancient Greece"*
- ENGLISH 317 - Literature and Culture, *section titled, Rust Belt Narratives*
- ENGLISH 320 / ENVIRON 377 - Literature and the Environment, *section titled, "Country and City"*
- ENGLISH 362 - The American Novel, *section titled, "The American Ghetto Novel"*
- GREEKMOD 325 - Athens, Present and Past
- HISTORY 328 - Humanities Topics in History, *section titled, "The City in History"*

- HISTORY 366 - Crime and Drugs in Modern America
- HISTORY 393 - Topics in U.S. History, *section titled, "Crime, Policing, and Social Justice in Postwar Detroit"*
- HISTORY 497 / JUDAIC 417 - History Colloquium, *section titled, "From Ghetto to Suburb"*
- HISTORY 497 - History Colloquium, *section titled, "Rome After Empire"*
- INSTHUM 311 - Topics in Interdisciplinary Studies, *section titled, "Cities and Sustainability in World History"*
- ITALIAN 310 - Italian Cities: The City as a Metaphor, *section titled, "Representations of Urban space in Italian Literature and Film"*
- RCSTP 250; HISTORY 231; SOC 295 - Topics in Social Theory and Practice, *section titled, "Policing, Power, and Protest in the United States"*
- RCSTP 312 - Environmental Justice Grassroots Community Organizing in Detroit for Changing Times
- RCLANG 324 - Readings in Spanish, *section titled, "The City Imagined: Visual and Literary Narratives on Latin American Urban Spaces"*
- RCLANG 324 - Readings in Spanish: Urban Culture and Citizenship
- RCHUMS 334 - Detroit Artist as Activist
- RCSTP 330 - Urban and Community Studies (if not used as the core course)
- RCSTP 360 - Social Science Junior Seminar, *sections titled, "Egalitarian Metropolis; Urban Studies, Urban Design & Social Justice in Detroit; 20th Century Detroit History" or "Thinking Historically in & about Detroit" (Other sections may be eligible with advisor approval)*
- RUSSIAN 450 - Twentieth-Century Russian Literature: St. Petersburg, *section titled, "The City and its Texts"*
- SOC 495 - Topics in Sociology, *section titled, "Future of the City?" (Other sections of this course may be eligible with advisor approval)*
- SOC 595 - Topics in Sociology, *section titled, "Urban and Community Sociology" (Other sections of this course may be eligible with advisor approval)*
- SPANISH 337 - Poetry Workshop, *section titled, "The Poet in the City: Lorca in New York, Borges in Buenos Aires"*
- URP 423 - Introduction to Urban and Environmental Planning (if not used as the core course)
- URP 425 - ENVIRON 462 – Urban Systems
- URP 427 - Foundations of Sustainable Food Systems
- URP 529 - History of Urban Form
- ANTHRCUL / WGS 446 (WOMENSTD 446): Sex and the City, *section titled, "Urban Geography and Sexual Locations"*

*Note: RCSTP 330: Living for the City: Black Study and Urban Transformation *may be included as an elective under Category A, provided a student has taken URP 423: Introduction to Environmental Urban Planning, to meet the core course requirement*

Group B Policy/Technique - Courses that provide an introduction to urban planning and policy making as it bears upon urban communities, including issues of the environment, land management, economic development, transportation, and sustainability.

- CEE 307 /ENVIRON 407 - Sustainable Cities

- ENVIRON 405 - Urban Sprawl, *section titled, "Policy & Politics"*
- ENVIRON 408 - Land Use Policy, Law, & the Environment
- URP 427 - Foundations of Sustainable Food Systems
- URP 508 - Spatial Thinking and Environmental Systems
- URP 520 - Introduction to Geographic Information Systems
- URP 523 - Comparative Participatory Planning and Community Development
- URP 530 - American Planning 1900-2000
- URP 532 - Sustainability and Social Change
- URP 534 - Crime and Community Development
- URP 550 - Planning Representation & Communication
- URP 551 - Physical Planning and Design Workshop
- URP 552 - Healthy Cities: Planning & Design
- URP 561 - Transportation and Public Policy
- URP 570 - Global and Comparative Planning
- URP 571 - Comparative Urban Policy
- URP 572 - Comparative Housing and Property Policy
- URP 573 - Infrastructure Planning in the US & Developing Countries
- URP 580 - Metropolitan Structure
- URP 581 - Housing Policy & Economics
- URP 582 - Neighborhood Revitalization Policy and Planning
- URP 583 - Race, Difference, and Social Justice
- URP 584 - Introduction to Economic Development Planning
- URP 586 Skills and Strategies for Community Change / SW 684 - Concepts & Techniques of Community Participation
- URP 594 - Real Estate and Urban Development

Group C: Applications/Practice - Courses that give students direct exposure to community settings and foster the integration of theoretical and policy planning knowledge and practical experience. Through specific engagements with urban and community topics, students experience and examine how theoretical and academic frameworks are applied in urban contexts. Prominent among these will be "field work" or "field study" courses — that is, courses in which students work in community settings.

- AMCULT 311 /RCHUMS 341 - American Culture and the Humanities, *section titled, "Empowering Community"*; other sections of this course may be eligible with advisor approval
- AMCULT 321 / PSYCH 325 - Detroit Initiative, *section titled, "Empowering Families and Communities"*
- EDUC 390 / ELI 390 / LING 390 / RCSTP 390 - Community-Engaged Learning in ESL Teaching Contexts
- PSYCH 305 – Practicum in Psychology
- PSYCH 306 – Project Outreach Group Leading
- PSYCH 307 - Directed Experiences with Children: Practicum in Child Development and Child Care
- RCCORE 309 - Study Off-Campus, *section titled, "French Service Learning"*
- RCCORE 205 - Spanish Language Internship Project I
- RCARTS 300 - Socially Engaged Visual Art in Prison
- RCCORE 301 - Internships with Semester in Detroit

- RCCORE 302 - Internship Reflection Seminar - Semester in Detroit
- RCHUMS 332 - The Atonement Project
- RCHUMS 335 - Theatre and Incarceration
- RCLANG 334 - Tutoring Latino/a Adults and Children: Spanish in the Community
- RCSTP 360 / LATINOAM 301 - Social Science Junior Seminar, *section titled, "Spanish Language Internship Program II"*
- RCSTP 461 / SOC 495 - Social Science Junior Seminar, *section titled, "Inside-Out Prison Exchange Course: Mass Incarceration and Conscientization"*
- SOC 225 - Project Community, *section titled, "Sociology in Action"*
- SOC 391 - Sociology in Practice: Topics Course, Select sections of this course may be eligible with advisor approval
- SOC 495 - Topics in Sociology, *section titled, "Inside Out"*; other sections of this course may be eligible with advisor approval
- WGS 350 - Nonprofit Management, Community Engagement, and Feminist Practice
- WGS 351 - Leading Feminism

**SOC 225 and RCSTP 360 are topics courses, therefore not all offerings under these numbers will be approved. Students will be allowed to count toward the minor only the particular offerings with the subtitles listed above (or others that are relevant to urban and community studies).*

Water and the Environment Minor

Virtually all academic disciplines connect to water in some way. The study of water occurs on nearly every spatial scale: from molecular to planetary.

While 70% of the surface of our planet is covered in water, less than 1% of the water on the Earth's surface is fresh water and only 0.08% of this is available for human use. Currently, 600 million people face water scarcity, and 2.7 to 3.2 billion people will face water shortages by 2025. The decline in water quantity and quality is affecting myriad and complex interactions at multiple levels and scales, creating conflicts between governments and peoples, impacting local and global economies, and affecting human health and well-being.

This minor will offer students particularly interested in water issues a place where they can pursue in an organized fashion an environmentally oriented course of study of the topic.

Effective Winter 2023

Advising

PitE staff and faculty advisors will help students navigate the "Water and the Environment Minor".

Prerequisites

None.

Requirements

Minimum Credits: 18

The minor consists of no fewer than 6 classes for a total of at least 18 credits.

1. **Introductory Course:** The Water Cycle, an Interdisciplinary Approach
2. **Second Water-Centered Course.** Select one from the list below.
3. **Three Topics Courses.** Select three courses from the list below. Two courses must be 300 level or above. Students will be required to take at least two courses from different sub-topics listed below.
4. **Practical Experience.** Student choose a practical experience synthesizing approaches and knowledge bases relevant to the issue. The practical experience can take the form of an independent study course, internship, field-oriented course or study abroad course. Students either work with a faculty advisor to complete an independent study course or internship, or they will consult with a PitE Advisor or faculty to choose a field-oriented course or study abroad experience synthesizing approaches and knowledge bases relevant to the student's interest in water.

Second Water-Centered Course. (Select one from the following list):

- AOSS 171 / ENVIRON 110 / BIOLOGY 110 / EARTH 171 / ENSCEN 171 / RCNSCI 110: Introduction to Global Change: The Science Behind Sustainability
- AOSS 172 / ENVIRON 111 / EARTH 172 / ENSCEN 172 / GEOG 111: Global Change: The Sustainability Challenge
- BIOLOGY 109: Ecological Knowledge and Environmental Problem Solving
- BIOLOGY 110 / AOSS 171 / ENVIRON 110 / EARTH 171 / ENSCEN 171 / RCNSCI 110: Introduction to Global Change: The Science Behind Sustainability
- EARTH 110: Evolving Oceans
- EARTH 171 / AOSS 171 / ENVIRON 110 / BIOLOGY 110 / ENSCEN 171 / RCNSCI 110: Introduction to Global Change: The Science Behind Sustainability
- EARTH 172 / AOSS 172 / ENVIRON 111 / ENSCEN 172 / GEOG 111: Global Change: The Sustainability Challenge
- EARTH 206 / ENVIRON 206: How the Earth Works: The Water Cycle and Environment
- EARTH 222 / ENVIRON 232: Introductory Oceanography
- EARTH 277: Water in the 21st Century
- ENSCEN 171 / AOSS 171 / ENVIRON 110 / BIOLOGY 110 / EARTH 171 / RCNSCI 110: Introduction to Global Change: The Science Behind Sustainability
- ENSCEN 172 / AOSS 172 / ENVIRON 111 / EARTH 172 / GEOG 111: Global Change: The Sustainability Challenge
- ENVIRON 110 / AOSS 171 / BIOLOGY 110 / EARTH 171 / ENSCEN 171 / RCNSCI 110: Introduction to Global Change: The Science Behind Sustainability
- ENVIRON 111 / AOSS 172 / EARTH 172 / ENSCEN 172 / GEOG 111: Global Change: The Sustainability Challenge
- ENVIRON 206 / EARTH 206: How the Earth Works: The Water Cycle and Environment
- ENVIRON 232 / EARTH 222: Introductory Oceanography
- GEOG 111 / AOSS 172 / ENVIRON 111 / EARTH 172 / ENSCEN 172: Global Change: The Sustainability Challenge
- HISTORY 240: The World Since 1492, *section titled "Oceans in World History"*
- RCNSCI 110 / AOSS 171 / ENVIRON 110 / BIOLOGY 110 / EARTH 171 / ENSCEN

171: Introduction to Global Change: The Science Behind Sustainability

Three Topics Courses. (Select three courses from the list below. Two courses must be 300 level or above. Students will be required to take at least two courses from different sub-topics listed below.):

Culture

- AMCULT 301: Topics in American Culture, *section titled "Green Indigeneity"*
- ARCH/ENVIRON/URP 357: Architecture, Sustainability and the City: Ideas, Forces and People Shaping the Built Environment
- ASIAN 371: Natural Disasters in East Asia
- CEE 307 / ENVIRON 407: Sustainable Cities
- CLCIV 277 / ENVIRON 277 / HISTORY 277: Environmental History of the Ancient Mediterranean
- ENGLISH 317: Literature and Culture, *sections titled "Green Indigeneities" and "Growing Up Near the Great Lakes"*
- ENGLISH 320: Literature and the Environment, *sections titled "Ecocriticism" and "Southern Natures: Race and Environment in the U.S. South"*
- ENGLISH 398: Junior Seminar in English Studies, *sections titled "American Literature and the Sea" and "Moby Dick: Allusion and Intertextuality"*
- ENVIRON 277 / CLCIV 277 / HISTORY 277: Environmental History of the Ancient Mediterranean
- ENVIRON 304: Topics in Culture and Environment, *sections titled "Growing Up Near the Great Lakes" and "Ecocriticism"*
- ENVIRON 324: Introduction to Water Law and Policy
- ENVIRON 336: Environment and Inequality
- ENVIRON 407 / CEE 307: Sustainable Cities
- ENVIRON 410: American Environmentalism and the Frontier West
- HISTORY 240: The World Since 1492, *section titled "Oceans in World History"*
- HISTORY 277 / CLCIV 277 / ENVIRON 277: Environmental History of the Ancient Mediterranean
- PUBHLTH 360: Community, Culture, and Social Justice (CCSJ) in Public Health
- RCHUMS 334: Special Topics in the Humanities, *section titled "Growing Up Near the Great Lakes"*
- WRITING 410: Quantitative Analysis and Writing in the Disciplines, *section titled "Demystifying Water Data"*

Economics, Policy & Planning

- ARCH 357 / UP 357: Architecture, Sustainability and the City: Ideas, Forces and People Shaping the Built Environment
- ECON 370 / ENVIRON 375: Environmental and Resource Economics
- EHS 588 / ENVIRON 475 / NRE 475: Environmental Law
- ENVIRON 208 / ORGSTUDY 208: Business and the Natural Environment
- ENVIRON 235: Economics of Natural Resources and Environment
- ENVIRON 306: Global Water
- ENVIRON 312: Environmental Politics and Policy
- ENVIRON 365: International Environmental Policy

- ENVIRON 375 / ECON 370: Environmental and Resource Economics
- ENVIRON 395: Natural Resource Law
- ENVIRON 407/CEE 307: Sustainable Cities
- ENVIRON 408: Land Use Policy, Law, and the Environment
- ENVIRON 412 / PUBPOL 412: Environmental Values in Public Policy
- ENVIRON 475 / EHS 588 / NRE 475: Environmental Law
- NRE 475 / ENVIRON 475 / EHS 588: Environmental Law
- ORGSTUDY 208 / ENVIRON 208: Business and the Natural Environment
- PUBPOL 412 / ENVIRON 412: Environmental Values in Public Policy
- UP 357 / ARCH 357: Architecture, Sustainability and the City: Ideas, Forces and People Shaping the Built Environment

Natural Sciences & Resource Management

- AOSS 350 / EARTH 350: Atmospheric Thermodynamics
- AOSS 411 / EARTH 411: Cloud and Precipitation Processes
- AOSS 420 / NAVARCH 420 / ENSCEN 420: Environmental Ocean Dynamics
- AOSS 467 / CHEM 467 / EARTH 465 / ENSCEN 467 / ENVIRON 467: Biogeochemical Cycles
- AOSS 474 / EARTH 474: Ice Sheets, Glaciers and Climate Change
- ASIAN/RCSSCI 371: Natural Disasters in East Asia
- CEE 590: Stream, Lake, and Estuary Analysis
- CHEM 467 / AOSS 467 / EARTH 465 / ENSCEN 467 / ENVIRON 467: Biogeochemical Cycles
- ENVIRON 426 / CLIMATE 421 / EARTH 421: Introduction of Physical Oceanography
- EARTH 206: How the Earth Works: The Water Cycle and Environment
- EARTH 222 / ENVIRON 232: Introductory Oceanography
- EARTH 223 / ENVIRON 233: Introductory Oceanography, Laboratory
- EARTH 333 / ENVIRON 333: The Inexhaustible Seas? Marine Resources and Environmental Issues
- EARTH 350 / AOSS 350: Atmospheric Thermodynamics
- EARTH 408: Introduction to GIS in the Earth Sciences
- EARTH 411 / AOSS 411: Cloud and Precipitation Processes
- EARTH 417: Geology of the Great Lakes
- EARTH 421 / CLIMATE 421 / ENVIRON 426: Introduction of Physical Oceanography
- EARTH 449: Marine Geology
- EARTH 452: Paleoceanography
- EARTH 465 / AOSS 467 / CHEM 467 / ENSCEN 467 / ENVIRON 467: Biogeochemical Cycles
- EARTH 474 / AOSS 474: Ice Sheets, Glaciers and Climate Change
- EARTH 477/ENVIRON 479: Hydrogeology
- EARTH 478: Geochemistry of Natural Waters
- EAS 531/ENVIRON 411: Principles of GIS
- EAS 541/ENVIRON 441: Remote Sensing
- EEB 320 / ENVIRON 311: Rivers, Lakes, and Wetlands: Introduction to Aquatic Ecosystems
- EEB 380: Oceanography: Marine Ecology
- EEB 440 / ENVIRON 422 / NRE 422: Biology of Fishes

- EEB 450: Biology of Amphibians and Reptiles
- EEB 455: Ethnobotany
- EEB 457: Algae in Freshwater Ecosystems
- EEB 476 / ENVIRON 476 / NRE 476: Ecosystem Ecology
- EEB 483: Freshwater Ecosystems: Limnology
- EEB 486: Biology and Ecology of Fish
- EEB 487 / ENVIRON 409 / NRE 409: Ecology of Fishes
- EEB 489 / ENVIRON 430 / NRE 430: Soil Ecology
- EHS 570: Water Quality Management
- ENSCEN 420 / AOSS 420 / NAVARCH 420: Environmental Ocean Dynamics
- ENSCEN 467 / AOSS 467 / CHEM 467 / EARTH 465 / ENVIRON 467: Biogeochemical Cycles
- ENVIRON 201 / RCNSCI 202: Ecological Issues
- ENVIRON 232 / EARTH 222: Introductory Oceanography
- ENVIRON 233 / EARTH 223: Introductory Oceanography, Laboratory
- ENVIRON 311 / EEB 320: Rivers, Lakes, and Wetlands: Introduction to Aquatic Ecosystems
- ENVIRON 333 / EARTH 333: The Inexhaustible Seas? Marine Resources and Environmental Issues
- ENVIRON 409 / NRE 409 / EEB 487: Ecology of Fishes
- ENVIRON 421: Restoration Ecology
- ENVIRON 422 / NRE 422 / EEB 440: Biology of Fishes
- ENVIRON 424: Stream Restoration
- ENVIRON 426 / CLIMATE 421 / EARTH 421: Introduction of Physical Oceanography
- ENVIRON 430 / NRE 430 / EEB 489: Soil Ecology
- ENVIRON 463: Topics in Environmental Natural Science, *section titled "Stream Restoration"*
- ENVIRON 467 / AOSS 467 / CHEM 467 / EARTH 465 / ENSCEN 467: Biogeochemical Cycles
- ENVIRON 476 / EEB 476 / NRE 476: Ecosystem Ecology
- NAVARCH 420 / AOSS 420 / ENSCEN 420: Environmental Ocean Dynamics
- NRE 409 / ENVIRON 409 / EEB 487: Ecology of Fishes
- NRE 422 / ENVIRON 422 / EEB 440: Biology of Fishes
- NRE 430 / ENVIRON 430 / EEB 489: Soil Ecology
- NRE 476 / ENVIRON 476 / EEB 476: Ecosystem Ecology
- PHYSICS 210: Energy for our Future
- RCNSCI 202 / ENVIRON 201 / RCNSCI 202: Ecological Issues

Public Health

- AAS 409 / ANTHRCUL 408: Maternal/Child Health and Environmental Pollution in Africa
- AAS 458: Issues in Black World Studies, *section titled "Business and Politics in Developing Countries"*
- ANTHRCUL 408 / AAS 409: Maternal/Child Health and Environmental Pollution in Africa
- EHS 570: Water Quality Management
- ENVIRON 201/RCNSCI 202: Ecological Issues

- ENVIRON 310: Toxicology: The Study of Environmental Chemicals and Disease
- ENVIRON 320: Environmental Journalism: Reporting About Science, Policy, and Public Health
- PUBHLTH 200: Health and Society
- PUBHLTH 305: The Environment and Human Health
- PUBHLTH 350: Global Public Health: Challenges and Transformation

Technology

- ARCH/ENVIRON/URP 357: Architecture, Sustainability and the City: Ideas, Forces and People Shaping the Built Environment
- ARTDES 250: Art, Design, and the Environment
- CEE 265: Sustainable Engineering Principles
- CEE 307 / ENVIRON 407: Sustainable Cities
- CEE 365: Environmental Engineering Principles
- CEE 480: Design of Environmental Engineering Systems
- CEE 481: Aquatic Chemistry
- EARTH 408: Introduction to GIS in the Earth Sciences
- EARTH 477 / ENVIRON 479: Hydrogeology
- ENVIRON 321: Climate Change and Adaptation
- ENVIRON 407 / CEE 307: Sustainable Cities
- ENVIRON 411: Principles of Geographic Information Systems
- ENVIRON 424: Stream Restoration
- ENVIRON 426: Introduction of Physical Oceanography
- ENVIRON 441: Remote Sensing
- ENVIRON 479 / EARTH 477: Hydrogeology
- UP 425: Urban Systems

Water and the Environment (Minor) (Fall 2016 - Fall 2022)

Effective Fall 2016

Advising

PitE staff and faculty advisors will help students navigate the “Water and the Environment Minor”.

Prerequisites

None.

Requirements

Minimum Credits: 18

The minor consists of no fewer than 6 classes for a total of at least 18 credits.

1. **Introductory Course:** The Water Cycle, an Interdisciplinary Approach
2. **Second Water-Centered Course.** Select one from the list below.
3. **Three Topics Courses.** Select three courses from the list below. Two courses must be 300 level or above. Students will be required to take at least two courses from different sub-topics listed below.
4. **Practical Experience.** Student choose a practical experience synthesizing approaches

and knowledge bases relevant to the issue. The practical experience can take the form of an independent study course, internship, field-oriented course or study abroad course. Students either work with a faculty advisor to complete an independent study course or internship, or they will consult with a PitE Advisor or faculty to choose a field-oriented course or study abroad experience synthesizing approaches and knowledge bases relevant to the student's interest in water.

Second Water-Centered Course. (Select one from the following list):

- AOSS 171 / ENVIRON 110 / BIOLOGY 110 / EARTH 171 / ENSCEN 171 / RCNSCI 110: Introduction to Global Change: The Science Behind Sustainability
- AOSS 172 / ENVIRON 111 / EARTH 172 / ENSCEN 172 / GEOG 111: Global Change: The Sustainability Challenge
- BIOLOGY 109: Ecological Knowledge and Environmental Problem Solving
- BIOLOGY 110 / AOSS 171 / ENVIRON 110 / EARTH 171 / ENSCEN 171 / RCNSCI 110: Introduction to Global Change: The Science Behind Sustainability
- EARTH 110: Evolving Oceans
- EARTH 171 / AOSS 171 / ENVIRON 110 / BIOLOGY 110 / ENSCEN 171 / RCNSCI 110: Introduction to Global Change: The Science Behind Sustainability
- EARTH 172 / AOSS 172 / ENVIRON 111 / ENSCEN 172 / GEOG 111: Global Change: The Sustainability Challenge
- EARTH 206 / ENVIRON 206: How the Earth Works: The Water Cycle and Environment
- EARTH 222 / ENVIRON 232: Introductory Oceanography
- EARTH 277: Water in the 21st Century
- ENSCEN 171 / AOSS 171 / ENVIRON 110 / BIOLOGY 110 / EARTH 171 / RCNSCI 110: Introduction to Global Change: The Science Behind Sustainability
- ENSCEN 172 / AOSS 172 / ENVIRON 111 / EARTH 172 / GEOG 111: Global Change: The Sustainability Challenge
- ENVIRON 110 / AOSS 171 / BIOLOGY 110 / EARTH 171 / ENSCEN 171 / RCNSCI 110: Introduction to Global Change: The Science Behind Sustainability
- ENVIRON 111 / AOSS 172 / EARTH 172 / ENSCEN 172 / GEOG 111: Global Change: The Sustainability Challenge
- ENVIRON 206 / EARTH 206: How the Earth Works: The Water Cycle and Environment
- ENVIRON 232 / EARTH 222: Introductory Oceanography
- GEOG 111 / AOSS 172 / ENVIRON 111 / EARTH 172 / ENSCEN 172: Global Change: The Sustainability Challenge
- HISTORY 240: The World Since 1492, *section titled "Oceans in World History"*
- RCNSCI 110 / AOSS 171 / ENVIRON 110 / BIOLOGY 110 / EARTH 171 / ENSCEN 171: Introduction to Global Change: The Science Behind Sustainability

Three Topics Courses. (Select three courses from the list below. Two courses must be 300 level or above. Students will be required to take at least two courses from different sub-topics listed below.):

Culture

- AMCULT 301: Topics in American Culture, *section titled "Green Indigeneity"*

- ASIAN 371: Natural Disasters in East Asia
- CEE 307 / ENVIRON 407: Sustainable Cities
- CLCIV 277 / ENVIRON 277 / HISTORY 277: Environmental History of the Ancient Mediterranean
- ENGLISH 317: Literature and Culture, *sections titled "Green Indigeneities" and "Growing Up Near the Great Lakes"*
- ENGLISH 320: Literature and the Environment, *sections titled "Ecocriticism" and "Southern Natures: Race and Environment in the U.S. South"*
- ENGLISH 398: Junior Seminar in English Studies, *sections titled "American Literature and the Sea" and "Moby Dick: Allusion and Intertextuality"*
- ENVIRON 277 / CLCIV 277 / HISTORY 277: Environmental History of the Ancient Mediterranean
- ENVIRON 304: Topics in Culture and Environment, *sections titled "Growing Up Near the Great Lakes" and "Ecocriticism"*
- ENVIRON 324: Introduction to Water Law and Policy
- ENVIRON 407 / CEE 307: Sustainable Cities
- ENVIRON 410: American Environmentalism and the Frontier West
- HISTORY 240: The World Since 1492, *section titled "Oceans in World History"*
- HISTORY 277 / CLCIV 277 / ENVIRON 277: Environmental History of the Ancient Mediterranean
- RCHUMS 334: Special Topics in the Humanities, *section titled "Growing Up Near the Great Lakes"*
- WRITING 410: Quantitative Analysis and Writing in the Disciplines, *section titled "Demystifying Water Data"*

Economics, Policy & Planning

- ARCH 357 / UP 357: Architecture, Sustainability and the City: Ideas, Forces and People Shaping the Built Environment
- ECON 370 / ENVIRON 375: Environmental and Resource Economics
- EHS 588 / ENVIRON 475 / NRE 475: Environmental Law
- ENVIRON 208 / ORGSTUDY 208: Business and the Natural Environment
- ENVIRON 235: Economics of Natural Resources and Environment
- ENVIRON 306: Global Water
- ENVIRON 365: International Environmental Policy
- ENVIRON 375 / ECON 370: Environmental and Resource Economics
- ENVIRON 408: Land Use Policy, Law, and the Environment
- ENVIRON 412 / PUBPOL 412: Environmental Values in Public Policy
- ENVIRON 475 / EHS 588 / NRE 475: Environmental Law
- NRE 475 / ENVIRON 475 / EHS 588: Environmental Law
- ORGSTUDY 208 / ENVIRON 208: Business and the Natural Environment
- PUBPOL 412 / ENVIRON 412: Environmental Values in Public Policy
- UP 357 / ARCH 357: Architecture, Sustainability and the City: Ideas, Forces and People Shaping the Built Environment

Natural Sciences & Resource Management

- AOSS 350 / EARTH 350: Atmospheric Thermodynamics
- AOSS 411 / EARTH 411: Cloud and Precipitation Processes

- AOSS 420 / NAVARCH 420 / ENSCEN 420: Environmental Ocean Dynamics
- AOSS 467 / CHEM 467 / EARTH 465 / ENSCEN 467 / ENVIRON 467:
Biogeochemical Cycles
- AOSS 474 / EARTH 474: Ice Sheets, Glaciers and Climate Change
- CHEM 467 / AOSS 467 / EARTH 465 / ENSCEN 467 / ENVIRON 467:
Biogeochemical Cycles
- ENVIRON 426 / CLIMATE 421 / EARTH 421: Introduction of Physical Oceanography
- EARTH 222 / ENVIRON 232: Introductory Oceanography
- EARTH 223 / ENVIRON 233: Introductory Oceanography, Laboratory
- EARTH 333 / ENVIRON 333: The Inexhaustible Seas? Marine Resources and
Environmental Issues
- EARTH 350 / AOSS 350: Atmospheric Thermodynamics
- EARTH 411 / AOSS 411: Cloud and Precipitation Processes
- EARTH 417: Geology of the Great Lakes
- EARTH 421 / CLIMATE 421 / ENVIRON 426: Introduction of Physical Oceanography
- EARTH 449: Marine Geology
- EARTH 452: Paleoceanography
- EARTH 465 / AOSS 467 / CHEM 467 / ENSCEN 467 / ENVIRON 467:
Biogeochemical Cycles
- EARTH 474 / AOSS 474: Ice Sheets, Glaciers and Climate Change
- EARTH 478: Geochemistry of Natural Waters
- EEB 320 / ENVIRON 311: Rivers, Lakes, and Wetlands: Introduction to Aquatic
Ecosystems
- EEB 380: Oceanography: Marine Ecology
- EEB 440 / ENVIRON 422 / NRE 422: Biology of Fishes
- EEB 450: Biology of Amphibians and Reptiles
- EEB 455: Ethnobotany
- EEB 457: Algae in Freshwater Ecosystems
- EEB 476 / ENVIRON 476 / NRE 476: Ecosystem Ecology
- EEB 483: Freshwater Ecosystems: Limnology
- EEB 486: Biology and Ecology of Fish
- EEB 487 / ENVIRON 409 / NRE 409: Ecology of Fishes
- EEB 489 / ENVIRON 430 / NRE 430: Soil Ecology
- ENSCEN 420 / AOSS 420 / NAVARCH 420: Environmental Ocean Dynamics
- ENSCEN 467 / AOSS 467 / CHEM 467 / EARTH 465 / ENVIRON 467:
Biogeochemical Cycles
- ENVIRON 201 / RCNSCI 202: Ecological Issues
- ENVIRON 232 / EARTH 222: Introductory Oceanography
- ENVIRON 233 / EARTH 223: Introductory Oceanography, Laboratory
- ENVIRON 311 / EEB 320: Rivers, Lakes, and Wetlands: Introduction to Aquatic
Ecosystems
- ENVIRON 333 / EARTH 333: The Inexhaustible Seas? Marine Resources and
Environmental Issues
- ENVIRON 409 / NRE 409 / EEB 487: Ecology of Fishes
- ENVIRON 421: Restoration Ecology
- ENVIRON 422 / NRE 422 / EEB 440: Biology of Fishes
- ENVIRON 426 / CLIMATE 421 / EARTH 421: Introduction of Physical Oceanography

- ENVIRON 430 / NRE 430 / EEB 489: Soil Ecology
- ENVIRON 463: Topics in Environmental Natural Science, *section titled "Stream Restoration"*
- ENVIRON 467 / AOSS 467 / CHEM 467 / EARTH 465 / ENSCEN 467: Biogeochemical Cycles
- ENVIRON 476 / EEB 476 / NRE 476: Ecosystem Ecology
- NAVARCH 420 / AOSS 420 / ENSCEN 420: Environmental Ocean Dynamics
- NRE 409 / ENVIRON 409 / EEB 487: Ecology of Fishes
- NRE 422 / ENVIRON 422 / EEB 440: Biology of Fishes
- NRE 430 / ENVIRON 430 / EEB 489: Soil Ecology
- NRE 476 / ENVIRON 476 / EEB 476: Ecosystem Ecology
- PHYSICS 210: Energy for our Future
- RCNSCI 202 / ENVIRON 201 / RCNSCI 202: Ecological Issues

Public Health

- AAS 409 / ANTHRCUL 408: Maternal/Child Health and Environmental Pollution in Africa
- AAS 458: Issues in Black World Studies, *section titled "Business and Politics in Developing Countries"*
- ANTHRCUL 408 / AAS 409: Maternal/Child Health and Environmental Pollution in Africa
- ENVIRON 310: Toxicology: The Study of Environmental Chemicals and Disease
- PUBHLTH 305: The Environment and Human Health
- PUBHLTH 350: Global Public Health: Challenges and Transformation

Technology

- ARTDES 250: Art, Design, and the Environment
- CEE 265: Sustainable Engineering Principles
- CEE 307 / ENVIRON 407: Sustainable Cities
- CEE 365: Environmental Engineering Principles
- CEE 480: Design of Environmental Engineering Systems
- CEE 481: Aquatic Chemistry
- EARTH 477 / ENVIRON 479: Hydrogeology
- ENVIRON 321: Climate Change and Adaptation
- ENVIRON 407 / CEE 307: Sustainable Cities
- ENVIRON 479 / EARTH 477: Hydrogeology
- UP 425: Urban Systems

Women's and Gender Studies Major

Goals of the Major:

1. To provide majors with an understanding of the interdisciplinary scholarship on women, gender, and sexuality, and to train them in interdisciplinary methods.
2. To offer theoretical and practical approaches to feminist thinking across the disciplines.
3. To encourage comparative thinking about coursework that explores the multicultural and global nature of feminist scholarship.

4. To train majors to think analytically by teaching them to read and write critically.
5. To provide supporting skills and context for the study of women through the cognate requirement.
6. To encourage intellectual and academic breadth through the cognate requirement.

Areas of the Women's and Gender Studies major:

LGBTQ (Lesbian, Gay, Bisexual, Transgender, and Queer) and Sexuality Studies offers an interdisciplinary approach to sexuality that includes topics such as religious beliefs, legal codes, medical constructions, and social movements, and recognizes them as historically variable and culturally specific. With the contributions of empirical research, feminist scholarship, and queer theory, courses in this area acquaint students with history of sexuality and understanding the formation of sexual identities and sexuality.

Gender, Race, and Ethnicity in the U.S. examines the intersection of gender, race, and ethnicity in order to consider differences among women and men, as well as the impact of multiple categories of identity on experience and on the formation and contestation of gender itself. Interracial and interethnic relations, the mutual influence of social movements, and racialized genders are also explored. Although the U.S. is the primary focus, consideration of various diasporas encourages analysis of the links between communities across national borders.

Gender, Culture and Representation explores ways in which ideas and meanings about women and gender are produced culturally and historically. It positions students as readers, viewers, and interpreters of cultures and cultural artifacts, especially in the domains of literature, philosophy, the visual and performing arts, mass media (including film), and their histories. Courses might explore a particular historical topic from a feminist perspective. Others might introduce students to feminist analyses of past and/or contemporary cultural forms and encourage them to consider processes of viewing, writing, and producing knowledge.

Gender in the Global Context offers a comparative cross-cultural perspective on the construction and meaning of gender, race, class, and sexuality. It examines current forces of globalization and empire, the histories of imperialism and colonialism, and postcolonial resistance and theory. Courses decenter the U.S. while placing it in a geopolitical context, including global and transnational feminisms.

Effective Fall 2020

Exclusions:

Gender and Health majors may not major in Women's and Gender Studies.

Advising

Advising appointments are made online. To make an advising appointment, please go to the department's Advising page.

Grade Policies

All courses in the Women's and Gender Studies major must be completed with a C- or above, including the prereq, WGS 240 (WOMENSTD 240): Introduction to Women's and Gender Studies.
Prerequisites

WGS 240 (WOMENSTD 240), completed with a minimum grade of C- or above.

Requirements

Minimum Credits: 33

33 credits (at least 25 must be at the 300-level or above) distributed as follows:

1. **Courses in Women's and Gender Studies:** Majors must complete areas A through D below.
 - A. **Feminist Theory:** WGS 330 (WOMENSTD 330): Feminist Thought.
 - B. **Thematic Areas.** One course from each of the following four areas (only one course may be double-counted to meet these four thematic area course requirements):
 1. Lesbian, Gay, Bisexual, Transgender, Queer and Sexuality Studies
 2. Gender, Race, and Ethnicity in the U.S.
 3. Gender in a Global Context
 4. Gender, Culture, and Representation
 - C. **Practice Course.** One course chosen from:
 1. WGS 313: Topics Gender Hums, topic 14 - Health, Gender, and Performance
 2. WGS 350 (WOMENSTD 350): Nonprofit Management, Community Engagement, and Feminist Practice
 3. WGS 351 (WOMENSTD 351): Leading Feminism
 4. WGS / HS 404 (WOMENSTD / HS 404) : Gender Based Violence: From Theory to Action
 5. WGS 425 (WOMENSTD 425): Feminist Practice of Oral History.
 6. SOC 225: Project Community: *various specifically approved topics - see department advisor*
 - D. **Electives:** Additional WGS or WOMENSTD credits to bring the total major credits up to 27 (excluding prerequisites and cognates).
2. **Cognates:** Two upper-level courses (for a total of six credits), neither in WGS (WOMENSTD) nor cross-listed, are required. In order to ensure that the interdisciplinary Women's and Gender Studies major is complemented by training in a single discipline, these courses will normally be in the same department. Cognate courses should not be courses on women and gender but should provide supporting skills or contexts for the study of women and gender.

Constraints

A maximum of six Women's and Gender Studies independent study credits may be taken, excluding credits for the practicum.

Residency

At least 14 credits of Women's and Gender Studies courses must be taken in residence-- and not including cognates.

In-residence: Courses elected on the Ann Arbor campus or at off-campus sites directed by Ann Arbor faculty. This includes STDABRD, Camp Davis, Biological Station, Michigan-in-Washington.

Distribution Policy

No course used to fulfill a major requirement may be used toward the LSA Distribution

Requirement. In addition, courses in the WGS or WOMENSTD subject area may not be used toward the Distribution Requirement.

Honors

The Women's and Gender Studies Honors Subplan provides an opportunity for majors to complete a comprehensive, original independent project under the guidance of a faculty mentor as the culmination to their undergraduate studies. Students should choose topics on which they have already done some academic study. Those interested in pursuing Honors should begin to consider it in their sophomore year and discuss their interests with a department advisor. Students learn methodology in WGS 389 (the Junior Honors Seminar) during the winter term of their junior year. The thesis is researched and written in the second term of the student's junior year and in their senior year. The Director of Undergraduate Studies (DUS) serves as the Honors SubPlan Advisor in Women's and Gender Studies. Honors applications are due in mid-November of the student's junior year.

For more information, please see: <https://lsa.umich.edu/wgs/undergraduates/honors-program.html>

Eligibility. Women's and Gender Studies majors who have maintained an overall GPA of at least 3.4 and a 3.5 GPA in Women's and Gender Studies (including the pre-requisite) may apply for an honors major. Applicants must have completed or plan to complete WGS 240 (WOMENSTD 240): Introduction to Women's Studies and WGS 330 (WOMENSTD 330): Feminist Thought, by the end of their junior year and applicants must demonstrate both the interest and capacity to carry out the comprehensive independent work required to complete an Honors thesis.

Writing Minor

The Minor in Writing is designed for all UM undergraduates who are interested in developing their disciplinary and professional writing abilities while pursuing concentrations across the liberal arts and sciences.

Effective Winter 2018

Advising

Students must apply to and be accepted by the Sweetland Center for Writing in order to declare the Minor in Writing. Applications are accepted twice a year, in March and October.

General questions about the minor should be sent to sweetlandwritingminor@umich.edu. To meet with an advisor regarding course selections, progress-to-degree and your minor release, schedule an appointment online by selecting Minor in Wrtg from the drop down menu in **Sweetland's scheduling system**.

Sweetland Center for Writing Departmental Information

Learn more about this center's undergraduate course offerings and the various types of writing support available to all student writers at the University of Michigan.

Grade Policies

- Students must have completed their First-Year Writing Requirement with a grade of C or higher.
- Engineering students must have completed Engineering 100 with a grade of C or higher.
- Students must complete the courses applied toward the minor with an average minimum GPA of 3.3.

Prerequisites

- Students must have completed their First-Year Writing Requirement with a grade of C or higher. Engineering students must have completed Engineering 100 with a grade of C or higher. Transfer students can complete the FYWR with a transfer course approved by Sweetland.
- Students must have at least three full terms remaining in their academic program.
- Students must be able to enroll in WRITING 220: Introduction to the Minor in their first semester in the Minor.

Applications will be considered twice a year, in March and October. Students must apply to and be accepted by the Sweetland Center for Writing in order to declare the Minor in Writing.

Requirements

Minimum Credits: 15

1. WRITING 220: Intro to the Minor in Writing – gateway course, which must be taken in the student's first full semester after being accepted into the minor.
2. One of the following courses:
 - DIGITAL / WRITING 200: New Media Writing
 - ENGLISH 225: Academic Argumentation
 - ENGLISH 229: Professional Writing
 - ENGLISH 325: Art of the Essay
 - LHSP 230: Writing and the Arts II
3. Two Upper-Level Writing Requirement courses, one of which may be shared with a major
4. WRITING 420: Minor in Writing Capstone – capstone course

Yiddish Studies Minor

The University of Michigan is an internationally recognized hub of experts in Yiddish studies and a pre-eminent center for Yiddish studies scholarship. The Yiddish Studies minor offers undergraduates a unique opportunity to focus on the study of the Yiddish language and explore its culture from the perspective of a variety of disciplines. Students of Yiddish gain access to entire worlds of Jewish culture that are otherwise obscure, from folk songs and memoirs to literary criticism, mystical literature, and historiography. As a diasporic language that flourished without the aid of a nation state or even homeland, Yiddish models alternative modes of Jewish cultural production in the medieval and modern eras. Not having its own nation-state borders, Yiddish has been traveling in the mouths of Ashkenazi Jews within and beyond Europe, to the Americas, Israel, Australia, and South Africa. In the 20th century, Yiddish was marginalized as a Jewish language in favor of Hebrew, abandoned as a daily language in favor of local state

languages like English, Russian, and Polish, and devastated by the Nazi and Stalinist regimes. And yet the vibrancy of Yiddish culture and literature continues to reverberate throughout the world in diverse forms of cultural production, including music and theater and secular and sacred literatures.

Students interested in particular places, such as Eastern Europe or the Americas, or engaged with international studies, which is explicitly comparative, will find that a minor in Yiddish studies will complement and enrich their understanding of these subjects by encouraging them to view the world from the point of view of a minority community deeply engaged with majority society.

This minor is intended for undergraduates who are captivated by Yiddish language as a window into a unique Jewish world. These students want to study a Jewish language but are not drawn to Hebrew; they prefer to follow a less well-trodden path that illuminates Jewish culture produced in Europe, the Americas, and wherever Ashkenazi immigrants settled. The prerequisite language study is necessary to give students basic competence in reading and speaking, grammar and simple writing assignments. The second year language sequence introduces Yiddish culture along with more advanced grammar as well as speaking that extends beyond simple sentences. It gives students a solid grounding in selected elements of Yiddish literature (poems, songs, short stories, newspaper articles). YIDDISH 201-202 often focuses on a particular theme to give coherence to the items studied.

Effective Fall 2016

Exclusions:

A minor in Yiddish Studies is not open to students with a major in Judaic Studies.

Advising

A student who is interested in a major in Judaic Studies should meet with the major advisor as early as possible to plan a coherent course of study. Please email JudaicStudies@umich.edu or call 734-615-6097 to schedule an appointment.

Prerequisites

Elementary Yiddish [Students must either take YIDDISH 101-102 at U-M or take an intensive summer course elsewhere (there are several that exist; at YIVO in conjunction with Bard College, at the National Yiddish Book Center, at Tel Aviv University, at Oxford University) that will qualify a student to take YIDDISH 201-202.]

Requirements

Minimum Credits: 15

A minimum of 15 credits, to be chosen from the following categories as stated below, with at least three courses at the 300- level or above:

1. **Core Language:** YIDDISH 201 and 202 (or JUDAIC 201 and 202), Intermediate Yiddish.
2. **Electives:** A minimum of 9 credits selected from the list of approved electives, below.
 - A. *Language*
 - YIDDISH / JUDAIC 301: Advanced Yiddish I
 - YIDDISH / JUDAIC 302: Advanced Yiddish II

- JUDAIC 401: Readings in Yiddish Texts, *section titled “Yiddish Culture Between Tradition and Modernity”*

B. *Literature*

- YIDDISH / JUDAIC 332: Yiddish Classics and Modernity
- YIDDISH / JUDAIC 433: Yiddish Classics and Modernity
- JUDAIC 205 / MIDEAST 276: What is Judaism?
- JUDAIC 218: Humanities Topics in Judaism, *sections titled “Jewish American Short Stories”, and “Urban Cafes and Modern Jewish Culture”*
- JUDAIC 271 / SLAVIC 270: Contact and Conflict: Jewish Experience in Eastern Europe through Art, Film & Literature
- JUDAIC / MIDEAST / SLAVIC 281: Jews in the Modern World: Texts, Images, Ideas
- JUDAIC 316: Topics in Jewish Literature, *section titled “Jewish Folk Literature”*
- JUDAIC 317: Topics in Judaic Studies: *sections titled “Lost in Transit: Literature of Jewish Mobility”, and “Yiddish Classics and Modernity”*
- JUDAIC 318: Humanities Topics in Judaism, *sections titled “Jewish Literature”, and “Literature of the Holocaust”*
- JUDAIC / YIDDISH 332: Yiddish Classics and Modernity
- JUDAIC / HISTORY 384: Modern Jewish History 1880-1948
- JUDAIC 386 / HISTORY 386 / GERMAN 391: The Holocaust
- JUDAIC / HISTORY / AMCULT 387: History of American Jews
- JUDAIC 417: Topics in Judaic Studies, *sections titled “Ethnicity in Israel Literature and Culture”, “Exile & Homecoming in Hebrew & Jewish Literature”, “Literature of the Holocaust”, “Shtetl: Image & Reality”, and “Yiddish in New York”*
- JUDAIC / YIDDISH 433: Yiddish Classics and Modernity
- JUDAIC / AMCULT 437: Yiddish in New York: The First 150 Years
- JUDAIC 467 / RELIGION 471 / MIDEAST 476: Seminar: Topics in the Study of Judaism, *sections titled “The Thought of Abraham Joshua Heschel”, and “Hasidism as Mysticism: Nahman Breslov”*
- JUDAIC / SLAVIC 481: Desire, Destiny, & Death: Jews and Modernism in Eastern / Central Europe
- AMCULT / JUDAIC 437: Yiddish in New York: The First 150 Years
- AMCULT / HISTORY / JUDAIC 387: History of American Jews
- AMCULT 405: Topics in American Culture, *section titled “Yiddish in New York: First 150 Years, 1870-2012”*
- COMPLIT 490: Comparative Cultural Studies, *section titled “Jews and Modernism”*
- ENGLISH 317: Literature and Culture, *section titled “Yiddish Classics and Modernity”*
- ENGLISH 383: Jewish Literature
- ENGLISH 407: Topics in English Language & Literature, *section titled “Literature of the Holocaust”*
- GERMAN 391 / HISTORY 386 / JUDAIC 386: The Holocaust
- HISTORY / JUDAIC 384: Modern Jewish History 1880-1948
- HISTORY / JUDAIC 386 / GERMAN 391: The Holocaust

- HISTORY / JUDAIC 387 / AMCULT 387: History of American Jews
- MIDEAST 276 / JUDAIC 205: What is Judaism?
- MIDEAST / JUDAIC / SLAVIC 281: Jews in the Modern World: Texts, Images, Ideas
- MIDEAST 476 / JUDAIC 467 / RELIGION 471: Seminar: Topics in the Study of Judaism, *sections titled “The Thought of Abraham Joshua Heschel”, and “Hasidism as Mysticism: Nahman Breslov”*
- RELIGION 471 / JUDAIC 467 / MIDEAST 476: Seminar: Topics in the Study of Judaism, *sections titled “The Thought of Abraham Joshua Heschel”, and “Hasidism as Mysticism: Nahman Breslov”*
- SLAVIC 270 / JUDAIC 271: Contact and Conflict: Jewish Experience in Eastern Europe through Art, Film & Literature
- SLAVIC / JUDAIC 281 / NEAREAST 281: Jews in the Modern World: Texts, Images, Ideas
- SLAVIC / JUDAIC 481: Desire, Destiny, & Death: Jews and Modernism in Eastern / Central Europe

LSA Course Catalog

This document is an unofficial representation of the information available on the LSA
Undergraduate Course Catalog

College of Literature, Science & the Arts

Courses In Geography (GEOG)

GEOG 111 / CLIMATE 172 / EARTH 172 / ENVIRON 111. Climate Change and Sustainability: Environmental Challenges of the 21st Century

(4). (ID). (BS). (QR/2). May not be repeated for credit. May not be included in a concentration plan. Satisfies the geography requirement for State of Michigan certification for social studies teachers. W.

GEOG 145 / INTLSTD 101. Introduction to International Studies

(3). (SS). May not be repeated for credit. Meets the geography requirement for public teacher certification in the School of Education.

GEOG 201 / EARTH 201. Introduction Physical Geography

(4; 3 in the half-term). (NS). (BS). May not be repeated for credit. No credit granted to those who have completed or are enrolled in GEOSCI 144 or 202 or EARTH 144 or 202 (or any combination thereof). F.

GEOG 591. Special Work in Human Geography

Consent of instructor required. (2 - 3). May be repeated for credit. Rackham credit requires additional work.

LSA Afroamerican and African Studies

Courses In Afroamerican & African Studies (AAS)

AAS 103. First Year Social Science Seminar

Enrollment restricted to first-year students, including those with sophomore standing. (3). (SS). May not be repeated for credit. (Cross-Area Courses). May not be included in a major.

AAS 104. First Year Humanities Seminar

Enrollment restricted to first-year students, including those with sophomore standing. (3). (HU). May not be repeated for credit. (Cross-Area Courses). May not be included in a major.

AAS 115. Elementary Swahili I

(4). May not be repeated for credit. Students with credit for AAS 115 may only elect AAS 117 for 4 credits.

AAS 116. Elementary Swahili II: Language and Culture

AAS 115. (4). May not be repeated for credit. No credit granted to those who have completed or are enrolled in AAS 117.

AAS 125. Elementary Yoruba I

(4). May not be repeated for credit. May not repeat the same language at the same level.

AAS 126. Elementary Yoruba II

AAS 125; May not repeat the same language at the same level. (4). May not be repeated for credit. May not repeat the same language at the same level.

AAS 200. Introduction to African Studies

(3). (SS). May not be repeated for credit.

AAS 201. Introduction to Afro-American Studies

(3). (SS). May not be repeated for credit.

AAS 202. Introduction to African Diasporic Studies

(3). (HU). May not be repeated for credit.

AAS 208 / HISTART 208. Introduction to African Art

(4). (HU). (R&E). May not be repeated for credit.

AAS 214 / HISTART 214. African American Art

(3). (R&E). May not be repeated for credit. (African-American Studies).

AAS 215. Intermediate Swahili I

AAS 116 or 117. (4). May not be repeated for credit.

AAS 216. Intermediate Swahili II

AAS 215. (4). (Lang Req). May not be repeated for credit.

AAS 225. Intermediate Yoruba I

AAS 126 or permission of instructor based on proficiency in elementary language skills. (4). May not be repeated for credit. May not repeat the same language at the same level.

AAS 226. Intermediate Yoruba II

AAS 225 or permission of instructor based upon proficiency of elementary language skills. (4). (Lang Req). May not be repeated for credit.

AAS 230 / HISTORY 274. Survey of Afro-American History I

AAS 111. (3). (SS). May not be repeated for credit. (African-American Studies).

AAS 231 / HISTORY 275. Survey of Afro-American History, II

AAS 111. (3). (SS). May not be repeated for credit. (African-American Studies).

AAS 233. Stayin' Alive: Performing Race in 1970s U.S. Film

(3). May not be repeated for credit.

AAS 246 / HISTORY 246. Africa to 1850

(4; 3 in the half-term). (SS). May not be repeated for credit.

AAS 247 / HISTORY 247 / INTLSTD 247. Modern Africa

(4; 3 in the half-term). (SS). (R&E). May not be repeated for credit.

AAS 248. Crime, Race, and the Law

(3). May not be repeated for credit.

AAS 250. Law, Race, and the Historical Process, I

(3). May not be repeated for credit.

AAS 251. Law, Race, and the Historical Process, II

AAS 450. (3). May not be repeated for credit.

AAS 254. The History and Evolution of Hip Hop Culture

(4). (HU). May not be repeated for credit.

AAS 260. The Political Economy of African Development

(3). (SS). May not be repeated for credit.

AAS 261 / ENVIRON 209 / INTLSTD 210. Nature and Power: An Introduction to Political Ecology

(4). (SS). May not be repeated for credit.

AAS 262 / HISTORY 272. 20th Century African-American Social Movements

(4; 3 in the half-term). (R&E). May not be repeated for credit.

AAS 271 / ENGLISH 274. Introduction to Afro-American Literature

AAS 111 (CAAS 111). (3; 2 in the half-term). (HU). May not be repeated for credit.

AAS 275 / WGS 275. Black women in Popular Culture

(4). (ID). May not be repeated for credit.

AAS 290. Selected Topics in Black World Studies

(2). May be elected three times for credit. May be elected more than once in the same term.

AAS 303 / SOC 303. Race and Ethnic Relations

An introductory course in Sociology or AAS 201. (3 - 4; 3 in the half-term). (SS). (R&E). May not be repeated for credit. (African-American Studies).

AAS 304 / WGS 304. Gender and Immigration: Identity, Race, and Place

The seminar is intended for junior and senior undergraduates but sophomores are also welcome. (3). (SS). May not be repeated for credit.

AAS 309. Global Health in African Contexts

(3). May not be repeated for credit.

AAS 315. Advanced Swahili I

AAS 216. (3). May not be repeated for credit.

AAS 316. Advanced Swahili II

AAS 315. (3). May not be repeated for credit.

AAS 317 / ENGLISH 307 / WGS 347. Threads: What Does Clothing Have to Do with Race, Culture, Politics, and the Environment?

(3). (HU). May not be repeated for credit.

AAS 321 / SOC 323. African American Social Thought

AAS 201. (3). (SS). May not be repeated for credit. (African-American Studies).

AAS 322 / ENVIRON 335. Introduction to Environment Politics: Race, Class, and Gender

(4; 3 in the half-term). (SS). (R&E). May not be repeated for credit. (Cross-Area Courses).

AAS 323 / HISTORY 388 / WGS 323. Black Feminist Thought and Practice

(3). (HU). May not be repeated for credit.

AAS 324. Dealing with the Past and Doing Justice in Africa: South Africa, Rwanda, Sierra Leone

AAS 111 and AAS 200, prior coursework in comparative politics, international relations, or permission of instructor. (3). May not be repeated for credit.

AAS 326. Advanced Yoruba II

(4). May not be repeated for credit.

AAS 327 / PSYCH 315. Psychological Aspects of the Black Experience

One course in Psychology or Afro-American and African Studies. AAS 201 recommended. (3). (SS). (R&E). May not be repeated for credit. (African-American Studies).

AAS 329 / ENGLISH 334 / WGS 325. Writing Sex: Contemporary Black Women Writers

(3). (HU). May not be repeated for credit.

AAS 330 / RCSTP 330. Living for the City: Black Study and Urban Transformation

(4). (ID). May not be repeated for credit.

AAS 331 / PSYCH 316. The World of the Black Child

One course in Psychology or Afro-American and African Studies. (3). May not be repeated for credit. (Cross-Area Courses).

AAS 335 / ANTHRCUL 335 / WGS 339. Medical Anthropologies of Kinship, Relatedness, and the Human

(3). (SS). May not be repeated for credit.

AAS 337 / HISTORY 337 / WGS 337. Black Women in the U.S., Part II: Contemporary Perspective in the 20th and 21st Centuries

AAS 201. (3). (SS). May not be repeated for credit. No credit granted to those who have completed or are enrolled in AAS 336.

AAS 338 / ENGLISH 379. Literature in Afro-American Culture

AAS 201. (3). (HU). May not be repeated for credit.

AAS 340 / AMCULT 340. A History of Blacks in American Film

AAS 201. (3). May not be repeated for credit. (African-American Studies). Sp.

AAS 341 / HISTORY 342 / WGS 340. Black Queer Histories

At least one course in Women's and Gender Studies, Afroamerican and African Studies, or History. (3). (HU). May not be repeated for credit.

AAS 346 / ENGLISH 389 / HISTORY 362. Literature in African History

(3). (HU). (R&E). May not be repeated for credit.

AAS 347 / RCSTP 343 / SOC 335. Urban Inequality in America

One course in introductory sociology. (4; 3 in the half-term). (SS). May not be repeated for credit. No credit granted to students who are enrolled in or have completed SOC 435 or SOC 535.

AAS 353 / ANTHRCUL 353. Urban Ethnography and the Black Experience

(3). (SS). May not be repeated for credit.

AAS 355 / ANTHRCUL 355 / HISTORY 355. Health and Illness in African Worlds

(4; 3 in the half-term). (R&E). May not be repeated for credit. (African Studies).

AAS 356 / POLSCI 355. Democracy and Development in Africa

(4). May not be repeated for credit.

AAS 357. Environmental Governance and African Development

(3). (SS). May not be repeated for credit.

AAS 358. Topics in Black World Studies

(3). May be repeated for a maximum of 6 credits.

AAS 362 / HISTART 362. Expressive Cultures of the Black Atlantic: Vision and Time

HISTART 208/AAS 208 and upperclass standing. (3). May not be repeated for credit.

AAS 363 / INTLSTD 360 / POLSCI 360. Politics of International Aid

(4). (SS). May not be repeated for credit.

AAS 365 / ANTHRCUL 365 / WGS 365. Global Perspectives on Gender, Health, and Reproduction

One course in either Women's & Gender Studies or AAS. (3). (SS). May not be repeated for credit.

AAS 366. Music of Africa

(3). (HU). May not be repeated for credit.

AAS 367. Africanist Dance Traditions: From Minstrelsy to Hip Hop

(3). May not be repeated for credit.

AAS 374 / ENGLISH 374. Readings in African American Literature

(3). (HU). May be repeated for a maximum of 6 credits.

AAS 382 / ENGLISH 372. Toni Morrison

(3). (HU). May not be repeated for credit.

AAS 384 / AMCULT 376 / ENGLISH 384. Caribbean Literature

AAS 202. (3). (HU). (R&E). May be repeated for a maximum of 6 credits.

AAS 385 / ENGLISH 385. African Literature

AAS 200. (3). (HU). May be elected twice for credit. (African Studies).

AAS 391. Psychology of the Black Experience

(3). (SS). May not be repeated for credit.

AAS 392 / AMCULT 392 / WGS 392. Mad, Bad, and Sad: Mental Health in the U.S.

(3). (HU). May not be repeated for credit.

AAS 393. Flawless/Formation/Freedom: Writing About Race, Gender and Popular Culture

(4). (HU). May not be repeated for credit.

AAS 395 / GERMAN 396 / HISTORY 396. Germany and the Black Diaspora

(3). (HU). (R&E). May not be repeated for credit.

AAS 408. African Economies: Social and Political Settings

AAS 200. (4; 3 in the half-term). May not be repeated for credit.

AAS 410. Supervised Reading and Research

Consent of instructor required. (1 - 6). (INDEPENDENT). May not be repeated for credit. Continuing Course. Y grade can be reported at end of the first-term to indicate work in progress. At the end of the second term (AAS 410 or 510), the final grade is posted for both term's elections. (Cross-Area Courses). F, W, Sp, Su.

AAS 411. Caribbean Religions: Creole Spiritualities from Vodou to Islam

(3). May not be repeated for credit.

AAS 418 / POLSCI 324. Black Americans and the Political System

One course in Political Science and AAS 201. (3). May not be repeated for credit. (African-American Studies).

AAS 421 / HISTORY 421 / LACS 421 / RELIGION 421. Religions of the African Diaspora

(3). (R&E). May not be repeated for credit. Rackham credit requires additional work.

AAS 426. Cities in Contemporary Africa

(3). May not be repeated for credit. (Cross-Area Courses). F.

AAS 438 / HISTORY 439 / WGS 439. Black Intimacies in the U.S.

At least one class in Women's and Gender Studies, History, or Afroamerican and African Studies. (3). May not be repeated for credit.

AAS 441 / INTLSTD 441 / POLSCI 441. Political Violence in Africa

(3). May not be repeated for credit.

AAS 457 / EAS 457 / ENVIRON 457. When China Comes to Town: Environment and the Politics of Development in Africa

(3). May not be repeated for credit.

AAS 458. Issues in Black World Studies

(3). May be repeated for a maximum of 6 credits.

AAS 460. Africa and Post-war Development Theory and Policy

AAS 200 & ECON 102. (3). May not be repeated for credit. Rackham credit requires additional work.

AAS 464 / MUSICOL 464. Music of Latin America and the Caribbean

AAS 202. (3). May not be repeated for credit. (Afro-Caribbean Studies).

AAS 473 / HISTORY 473 / LACS 483. Brazil: History and Culture

(3). May not be repeated for credit. Rackham credit requires additional work.

AAS 482. Black Queer Theory

(3). May not be repeated for credit.

AAS 490. Special Topics in Black World Studies

(1 - 2). May be repeated for a maximum of 6 credits.

AAS 495. Senior Seminar

Upperclass standing. (4). May be repeated for a maximum of 8 credits. (Cross-Area Courses).

AAS 498. DAAS In Action

(3). May not be repeated for credit.

AAS 558. Seminar in Black World Studies

Graduate standing or permission of instructor. (3). May be repeated for a maximum of 6 credits.

LSA American Culture

Courses In Arab and Muslim American Studies (AMAS)

AMAS 206. Themes in Arab American Studies

(3 - 4; 3 in the half-term). (SS). May be elected twice for credit. May be elected more than once in the same term.

AMAS 215 / AMCULT 215 / MIDEAST 275. Introduction to Arab-American Studies

(4). (HU). (R&E). May not be repeated for credit.

AMAS 216 / AMCULT 216. Introduction to American Muslims

(3). (HU). May not be repeated for credit. No credit granted to those who have completed or are enrolled in AMCULT/ARABAM 236 "Muslims in America".

AMAS 229 / AMCULT 229 / ISLAM 221 / MIDEAST 221. The Qur'an as Utopian Text

(4). (HU). May not be repeated for credit.

AMAS 248 / AMCULT 248. Arab America: Art, Cultural Politics, and Activism

(3). (HU). May not be repeated for credit.

AMAS 301. Topics in Arab American Studies

(1 - 4). May be elected twice for credit. May be elected more than once in the same term.

AMAS 310. Arab American Studies and the Social Sciences

(3). (SS). May be repeated for a maximum of 6 credits. May be elected more than once in the same term.

AMAS 311. Arab American Studies and the Humanities

(1 - 4). (HU). May be elected twice for credit. May be elected more than once in the same term.

AMAS 356 / AMCULT 356. Law and Border

(3). (SS). May not be repeated for credit.

AMAS 378 / AMCULT 382 / ENGLISH 378 / ISLAM 378. Muslim and Arab Literatures

(3). (HU). May be repeated for a maximum of 6 credits.

AMAS 384 / AMCULT 384. Islamophobia

Not available to students who have completed AMCULT/ARABAM 311 when taught with the topic "Islamophobia" (Topic #27). (Prerequisites enforced at registration.) (3). (HU). May not be repeated for credit.

AMAS 389. Reading Course in Arab and Muslim American Studies

Consent of instructor required. (1 - 4). (INDEPENDENT). May not be repeated for credit.

AMAS 390. Internship in Arab and Muslim American Studies

Consent of instructor required. (2 - 4; 1 - 4 in the half-term). (EXPERIENTIAL). May be repeated for a maximum of 6 credits. Not available to students who have completed six (6) credits in ARABAM 388 or AMCULT 390. Offered mandatory credit/no credit.

AMAS 405. Topics in Arab American Studies

(1 - 4). May be elected twice for credit. May be elected more than once in the same term.

AMAS 498. Capstone Seminar in Arab and Muslim American Studies

(3 - 4; 3 in the half-term). May be elected twice for credit. May be elected more than once in the same term.

Courses In American Culture (AMCULT)

AMCULT 102. First Year Seminar in American Studies

Enrollment restricted to first-year students, including those with sophomore standing. (3). (SS). May not be repeated for credit.

AMCULT 103. First Year Seminar in American Studies

Enrollment restricted to first-year students, including those with sophomore standing. (3). (HU). May not be repeated for credit.

AMCULT 201. American Values

(4; 3 in the half-term). (HU). (R&E). May not be repeated for credit.

AMCULT 202 / DIGITAL 202. Digital Culture

(4; 3 in the half-term). (ID). May not be repeated for credit. No credit granted to those who have completed or are enrolled in ENGLISH/DIGITAL 280 or FTVM 202 (SAC 202)/DIGITAL 220.

AMCULT 204. Themes in American Culture

(3 - 4; 3 in the half-term). (HU). May be elected four times for credit. May be elected more than once in the same term.

AMCULT 205. American Cultures

(3 - 4; 3 in the half-term). (HU). May not be repeated for credit.

AMCULT 206. Themes in American Culture

(3 - 4; 3 in the half-term). (SS). May be elected twice for credit. May be elected more than once in the same term.

AMCULT 212. Motor Nation: Car Cultures, Race, and Gender

(4; 3 in the half-term). (HU). (R&E). May not be repeated for credit.

AMCULT 213 / LATINOAM 213. Introduction to Latina/o Studies

(3 - 4). (ID). (R&E). May not be repeated for credit.

AMCULT 214 / ASIANPAM 214. Introduction to Asian/Pacific American Studies

(3 - 4). (HU). (R&E). May not be repeated for credit.

AMCULT 215 / AMAS 215 / MIDEAST 275. Introduction to Arab-American Studies

(4). (HU). (R&E). May not be repeated for credit.

AMCULT 216 / AMAS 216. Introduction to American Muslims

(3). (HU). May not be repeated for credit. No credit granted to those who have completed or are enrolled in AMCULT/ARABAM 236 "Muslims in America".

AMCULT 217 / NATIVEAM 217. Introduction to Native American Studies

(4; 3 in the half-term). (HU). May not be repeated for credit.

AMCULT 221 / SOC 221. Unequal America: Understanding Social Inequality

(4; 3 in the half-term). (SS). May not be repeated for credit.

AMCULT 222 / NATIVEAM 222. Elementary Ojibwe I
(3; 2 in the half-term). May not be repeated for credit. May not be included in a minor in Native American Studies. F.

AMCULT 223 / NATIVEAM 223. Elementary Ojibwe II
NATIVEAM 222 or AMCULT 222; with a minimum grade of C- or better. (Prerequisites enforced at registration.) (3; 2 in the half-term). May not be repeated for credit. May not be included in an academic minor in Native American Studies. W.

AMCULT 224 / LATINOAM 224 / SPANISH 278. Spanish for Heritage Language Learners
Placement of SPANISH 277/278 or equivalent. (3). (Lang Req). May not be repeated for credit. No credit granted to students who have completed SPANISH 277. This course does not satisfy the language requirement.

AMCULT 225. Space, Story and the American Self
(4; 3 in the half-term). (HU). (R&E). May not be repeated for credit.

AMCULT 229 / AMAS 229 / ISLAM 221 / MIDEAST 221. The Qur'an as Utopian Text
(4). (HU). May not be repeated for credit.

AMCULT 230 / HISTART 230. Art and Life in 19th-Century America
(3). (HU). May not be repeated for credit.

AMCULT 232 / ENGLISH 282 / NATIVEAM 232. Introduction to Native American Literature
(3). (HU). May not be repeated for credit.

AMCULT 240 / WGS 240. Introduction to Women's and Gender Studies
(4; 3 in the half-term). (HU). (R&E). May not be repeated for credit.

AMCULT 243 / LATINOAM 243 / WGS 243. Latina Women in the U.S.
(4; 3 in the half-term). (HU). May not be repeated for credit.

AMCULT 244 / HISTART 244. Art of the American Century (1893-1968)
(3). (HU). May not be repeated for credit.

AMCULT 248 / AMAS 248. Arab America: Art, Cultural Politics, and Activism
(3). (HU). May not be repeated for credit.

AMCULT 270 / HISTORY 270. Religion in America
(4). (HU). May not be repeated for credit.

AMCULT 277 / ASIAN 277. From Truman to Trump: Introduction to US-Korea Relations
(4). (HU). May not be repeated for credit.

AMCULT 280 / ITALIAN 240. Italian Mafia
(4). (HU). (R&E). May not be repeated for credit.

AMCULT 281 / HISTORY 281. How to Become a Billionaire: Business Tycoons and the Development of Western Capitalism
(4; 3 in the half-term). (SS). May not be repeated for credit.

AMCULT 289 / HISTORY 289. The United States in the World
(4; 3 in the half-term). (SS). May not be repeated for credit.

AMCULT 300. Practices of American Culture
(3). (ID). May not be repeated for credit. No credit granted to those who have completed or are enrolled in AMCULT 275.

AMCULT 301. Topics in American Culture
(1 - 4). May be elected four times for credit. May be elected more than once in the same term.

AMCULT 302 / RCSTP 302 / STS 302. Contemporary Social and Cultural Theory
(4). (SS). May not be repeated for credit.

AMCULT 304 / LATINOAM 304 / SOC 304. American Immigration
One introductory course in Sociology or American Culture. (4). (SS). (R&E). May not be repeated for credit.

AMCULT 305 / ASIANPAM 305. Asian Pacific American Community Service and Learning
(3). May be elected twice for credit.

AMCULT 308 / HISTORY 315. American Constitutional History
Students should have a good general knowledge of United States History, such as that acquired in HISTORY 260 and 261, or equivalent rigorous high school history courses. (4; 3 in the half-term). (SS). (R&E). May not be repeated for credit.

AMCULT 310. Topics in Ethnic Studies
(3). (SS). May be repeated for a maximum of 6 credits. May be elected more than once in the same term.

AMCULT 311. American Culture and the Humanities
(1 - 4). (HU). May be elected four times for credit. May be elected more than once in the same term.

AMCULT 313 / ANTHRCUL 314 / LATINOAM 313. Cuba and its Diaspora
(3). (SS). (R&E). May not be repeated for credit. F.

AMCULT 315 / HISTORY 377 / LATINOAM 315. Latino/a/e History as U.S. History
(3 - 4). (HU). (R&E). May not be repeated for credit. No credit granted to those who have completed or are enrolled in AMCULT 312 or HISTORY 312.

AMCULT 318 / GREEKMOD 318. Greek-American Culture
(3). (R&E). May not be repeated for credit.

AMCULT 319 / POLSCI 304 / WGS 326. Disability: A Democratic Dilemma
No credit for POLSCI 495 with the topic Disability: A Democratic Dilemma. (Prerequisites enforced at registration.) (3). (R&E). May not be repeated for credit.

AMCULT 321 / PSYCH 325. Detroit Initiative
One of the following: PSYCH 111, 112, 114, or 115. (1 - 4). (EXPERIENTIAL). May be elected three times for credit. A total of six credits of PSYCH letter-graded experiential courses may be counted for the Psychology major. PSYCH 325 must be taken for at least three credits to count as an experiential lab in the Psychology major. No more than 6 credits of directed readings/internships may be counted toward the American Culture major.

AMCULT 322 / NATIVEAM 322. Intermediate Ojibwe I
NATIVEAM 223 or AMCULT 223; with a minimum grade of C- or better. (Prerequisites enforced at registration.) (3; 2 in the half-term). May not be repeated for credit. F.

AMCULT 323 / NATIVEAM 323. Intermediate Ojibwe II
NATIVEAM 322 or AMCULT 322; with a minimum grade of C- or better. (Prerequisites enforced at registration.) (3; 2 in the half-term). (Lang Req). May not be repeated for credit. W.

AMCULT 324 / ASIANPAM 324 / ENGLISH 381. Asian American Literature
(3). (HU). May not be repeated for credit.

AMCULT 325 / ASIANPAM 325 / ENGLISH 388. Pacific Literary and Cultural Studies
(3). (HU). May not be repeated for credit.

AMCULT 327 / ENGLISH 387 / LATINOAM 327. Latina/Latino Literature of the U.S.
(3). (HU). May not be repeated for credit. Taught in English.

AMCULT 328 / ENGLISH 382 / NATIVEAM 328. Studies in Native American Literature
(3). (HU). May not be repeated for credit.

AMCULT 333 / ASIANPAM 333 / ENGLISH 333 / NATIVEAM 333. Green Indigeneity
Not available to students who have completed AMCULT 311 (Topic #11) or ENGLISH 317 (Topic #33) when taught with the topic "Green Indigeneity". (Prerequisites enforced at registration.) (3 - 4). (HU). May not be repeated for credit.

AMCULT 334 / COMM 334 / DIGITAL 334 / FTVM 334. Race, Gender, Sexuality and U.S. Culture in Video Games
(4; 3 in the half-term). (R&E). May not be repeated for credit.

AMCULT 338 / HISTORY 338 / NATIVEAM 338. Topics in Native American History
(3 - 4; 3 in the half-term). (HU). May not be repeated for credit.

AMCULT 340 / AAS 340. A History of Blacks in American Film
AAS 201. (3). May not be repeated for credit.

AMCULT 341 / HISTORY 343. Rise of the Corporation
(3). (SS). May not be repeated for credit.

AMCULT 346 / COMM 346 / DIGITAL 346 / FTVM 346 / GERMAN 346. Media Matter: From Print to Screen Culture
(3). (HU). May not be repeated for credit.

AMCULT 348 / HISTORY 346. History of American Radicalism
(4; 3 in the half-term). (SS). May not be repeated for credit.

AMCULT 350 / THTREMUS 315. Broadway and American Culture
No credit granted to those who have completed or are enrolled in AMCULT 311 (topics #45, #82, or #96) when taught with the topic "Broadway in America" or "Race and Broadway Musicals.". (Prerequisites enforced at registration.) (4; 3 in the half-term). (HU). (R&E). May not be repeated for credit.

AMCULT 352 / ASIANPAM 352. Asian/Pacific Islander American Cultural Performance
(4; 3 in the half-term). (HU). May not be repeated for credit.

AMCULT 356 / AMAS 356. Law and Border
(3). (SS). May not be repeated for credit.

AMCULT 358 / DIGITAL 358. Topics in Digital Studies
(1 - 4). (ID). May be repeated for a maximum of 9 credits. May be elected more than once in the same term.

AMCULT 359 / ASIANPAM 359. South Asian Diaspora in America
Not available to students who have completed AMCULT/ASIANPAM 311 when taught with the topic "South Asian Diaspora in America". (Prerequisites enforced at registration.) (3). (HU). May not be repeated for credit.

AMCULT 366 / HISTORY 353 / WGS 366. Sex and Sexuality in U.S. Popular Culture
(3). (HU). May not be repeated for credit.

AMCULT 367 / HISTORY 367 / NATIVEAM 367. American Indian History
(4; 3 in the half-term). (SS). (R&E). May not be repeated for credit.

AMCULT 368 / COMPLIT 313 / SM 361. City of Champions: Detroit Sports Culture in Context
Familiarity with US sports and/or a strong interest in urban history. (3). (HU). May not be repeated for credit.

AMCULT 372 / ASIANPAM 372. Hula - Creative Practice
Not available to students who have completed AMCULT 355 when taught with the topic "The Hula" (topic #1). (Prerequisites enforced at registration.) (3). (CE). May not be repeated for credit.

AMCULT 373 / HISTORY 373 / LATINOAM 373 / NATIVEAM 373. History of the U.S. West
(4; 3 in the half-term). (HU). May not be repeated for credit.

AMCULT 374 / HISTORY 374. The Politics and Culture of the "Sixties"
(4; 3 in the half-term). (SS). (R&E). May not be repeated for credit.

AMCULT 376 / AAS 384 / ENGLISH 384. Caribbean Literature
AAS 202. (3). (HU). (R&E). May be repeated for a maximum of 6 credits.

AMCULT 377. Culture Corps Internship Preparation
(2). May not be repeated for credit.

AMCULT 381 / FTVM 381 / LATINOAM 381. Latinas/Latinos and the Media
Consent of department required. (3). (HU). May not be repeated for credit.

AMCULT 382 / AMAS 378 / ENGLISH 378 / ISLAM 378. Muslim and Arab Literatures
(3). (HU). May be repeated for a maximum of 6 credits.

AMCULT 383. Junior Honors Reading and Thesis
Consent of instructor required. Juniors only. (3; 2 in the half-term). (INDEPENDENT). May not be repeated for credit. F, W, Sp/Su, Sp, Su.

AMCULT 384 / AMAS 384. Islamophobia
Not available to students who have completed AMCULT/ARABAM 311 when taught with the topic "Islamophobia" (Topic #27). (Prerequisites enforced at registration.) (3). (HU). May not be repeated for credit.

AMCULT 387 / HISTORY 387 / JUDAIC 387. History of American Jews
(4; 3 in the half-term). (HU). May not be repeated for credit.

AMCULT 388. Field Study
Consent of instructor required. Sophomore standing. (1 - 4). (EXPERIENTIAL). May be repeated for a maximum of 8 credits. Offered mandatory credit/no credit.

AMCULT 389. Reading Course in American Culture

Consent of instructor required. (1 - 4). (INDEPENDENT). May not be repeated for credit. No more than 6 credits of directed readings/internships may be counted toward the American Culture major. F, W, Sp/Su, Sp, Su.

AMCULT 392 / AAS 392 / WGS 392. Mad, Bad, and Sad: Mental Health in the U.S.

(3). (HU). May not be repeated for credit.

AMCULT 395 / LATINOAM 365 / RCSTP 362. Migrants: Understanding the Inequities in the US Agricultural Workforce

(3). (SS). May not be repeated for credit.

AMCULT 397 / LATINOAM 307 / RCSTP 307. Spanish Language Internship Project

(3). (SS). (R&E). May not be repeated for credit.

AMCULT 398. Junior Honors Writing Workshop

Consent of instructor required. Permission of a concentration advisor in American Culture. (1 - 3). May not be repeated for credit.

AMCULT 404 / LATINOAM 404 / SOC 404. Latinas/os in the U. S.: Social Problems and Social Issues

Upperclass standing. (3). (R&E). May not be repeated for credit.

AMCULT 405. Topics in American Culture

(1 - 4). May be elected four times for credit. May be elected more than once in the same term.

AMCULT 410 / DIGITAL 410 / SI 410 / STS 410. Ethics and Information Technology

Junior or Senior. (Prerequisites enforced at registration.) May not be repeated for credit.

AMCULT 411 / WGS 411. Rednecks, Queers, and Country Music

One course in Women's & Gender Studies or American Culture. (3). May not be repeated for credit.

AMCULT 426 / HISTORY 426. Violence and (De)Colonization

(3). May not be repeated for credit. Rackham credit requires additional work.

AMCULT 433 / HISTART 431. Made in Detroit: A History of Art and Culture in the Motor City

Upperclass standing; prior coursework in Art History, U.S. History, American Culture, or Urban studies, and permission of instructor. (3). May not be repeated for credit.

AMCULT 438 / HISTORY 444 / JUDAIC 440. A History of Jews and Social Justice in the United States

No credit granted to those who have completed or are enrolled in JUDAIC 417: Topics in Judaic Studies, topic #11 "A History of Jews and Social Justice in the US". (Prerequisites enforced at registration.) (3). May not be repeated for credit. Rackham credit requires additional work.

AMCULT 462 / HISTORY 461. The American Revolution

(4; 3 in the half-term). May not be repeated for credit. Rackham credit requires additional work.

AMCULT 489. Senior Essay

Consent of instructor required. Senior concentrators and AMCULT 350. (3). (INDEPENDENT). May not be repeated for credit.

AMCULT 493. Honors Readings and Thesis

Consent of instructor required. Senior standing and a grade point average of at least 3.5 in Honors concentration. (1 - 3). May be repeated for a maximum of 6 credits. No more than 6 credits of directed readings/internships may be counted toward the American Culture major. Continuing Course. Y grade can be reported at end of the first-term to indicate work in progress. At the end of the second term of AMCULT 493, the final grade is posted for both term's elections. F, W, Sp/Su, Sp, Su.

AMCULT 498. Capstone Seminar in American Culture

(3 - 4; 3 in the half-term). May be elected twice for credit. May be elected more than once in the same term.

Courses In Asian/Pacific Island Amer Std (ASIANPAM)**ASIANPAM 103. First Year Seminar in Asian/Pacific Islander American Studies**

Enrollment restricted to first-year students, including those with sophomore standing. (3). (HU). May not be repeated for credit.

ASIANPAM 204. Themes in Asian/Pacific Islander American Studies

(3 - 4; 3 in the half-term). (HU). May be elected twice for credit. May be elected more than once in the same term.

ASIANPAM 214 / AMCULT 214. Introduction to Asian/Pacific American Studies

(3 - 4). (HU). (R&E). May not be repeated for credit.

ASIANPAM 301. Topics in Asian/Pacific Islander American Studies

(1 - 4). May be elected twice for credit. May be elected more than once in the same term.

ASIANPAM 305 / AMCULT 305. Asian Pacific American Community Service and Learning

(3). May be elected twice for credit.

ASIANPAM 311. Asian/Pacific Islander American Studies and the Humanities

(1 - 4). (HU). May be elected twice for credit. May be elected more than once in the same term.

ASIANPAM 324 / AMCULT 324 / ENGLISH 381. Asian American Literature

(3). (HU). May not be repeated for credit.

ASIANPAM 325 / AMCULT 325 / ENGLISH 388. Pacific Literary and Cultural Studies

(3). (HU). May not be repeated for credit.

ASIANPAM 333 / AMCULT 333 / ENGLISH 333 / NATIVEAM 333. Green Indigeneity

Not available to students who have completed AMCULT 311 (Topic #11) or ENGLISH 317 (Topic #33) when taught with the topic "Green Indigeneity". (Prerequisites enforced at registration.) (3 - 4). (HU). May not be repeated for credit.

ASIANPAM 352 / AMCULT 352. Asian/Pacific Islander American Cultural Performance

(4; 3 in the half-term). (HU). May not be repeated for credit.

ASIANPAM 359 / AMCULT 359. South Asian Diaspora in America

Not available to students who have completed AMCULT/ASIANPAM 311 when taught with the topic "South Asian Diaspora in America". (Prerequisites enforced at registration.) (3). (HU). May not be repeated for credit.

ASIANPAM 372 / AMCULT 372. Hula - Creative Practice

Not available to students who have completed AMCULT 355 when taught with the topic "The Hula" (topic #1). (Prerequisites enforced at registration.) (3). (CE). May not be repeated for credit.

ASIANPAM 388. Field Study

Consent of instructor required. Sophomore standing. (1 - 4). (EXPERIENTIAL). (INDEPENDENT). May be repeated for a maximum of 8 credits.

Offered mandatory credit/no credit.

ASIANPAM 389. Reading Course in Asian/Pacific Islander American Studies

Consent of instructor required. (1 - 4). (INDEPENDENT). May not be repeated for credit. No more than 6 credits of directed readings/internships may be counted toward the American Culture major.

ASIANPAM 498. Capstone Seminar in Asian/Pacific Islander American Studies

(3 - 4; 3 in the half-term). May be elected twice for credit. May be elected more than once in the same term.

Courses In Latina/o American Studies (LATINOAM)

LATINOAM 102. First Year Seminar in Latina/o Studies

Enrollment restricted to first-year students, including those with sophomore standing. (3). (SS). May not be repeated for credit.

LATINOAM 213 / AMCULT 213. Introduction to Latina/o Studies

(3 - 4). (ID). (R&E). May not be repeated for credit.

LATINOAM 224 / AMCULT 224 / SPANISH 278. Spanish for Heritage Language Learners

Placement of SPANISH 277/278 or equivalent. (3). (Lang Req). May not be repeated for credit. No credit granted to students who have completed SPANISH 277.

LATINOAM 232 / HISTART 232. Visualizing Power and Resistance in Colonial Latin America

(3). (HU). May not be repeated for credit.

LATINOAM 243 / AMCULT 243 / WGS 243. Latina Women in the U.S.

(4; 3 in the half-term). (HU). May not be repeated for credit.

LATINOAM 301. Topics in Latina/o Studies

(1 - 4). May be elected twice for credit. May be elected more than once in the same term.

LATINOAM 304 / AMCULT 304 / SOC 304. American Immigration

One introductory course in Sociology or American Culture. (4). (SS). (R&E). May not be repeated for credit.

LATINOAM 307 / AMCULT 397 / RCSTP 307. Spanish Language Internship Project

(3). (SS). (R&E). May not be repeated for credit.

LATINOAM 310. Latina/o Studies and the Social Sciences

(3). (SS). May be repeated for a maximum of 6 credits. May be elected more than once in the same term.

LATINOAM 311. Latina/o Studies and the Humanities

(1 - 4). (HU). May be elected twice for credit. May be elected more than once in the same term.

LATINOAM 313 / AMCULT 313 / ANTHRCUL 314. Cuba and its Diaspora

(3). (SS). (R&E). May not be repeated for credit.

LATINOAM 315 / AMCULT 315 / HISTORY 377. Latino/a/e History as U.S. History

(3 - 4). (HU). (R&E). May not be repeated for credit. No credit granted to those who have completed or are enrolled in AMCULT 312 or HISTORY 312.

LATINOAM 327 / AMCULT 327 / ENGLISH 387. Latina/Latino Literature of the U.S.

(3). (HU). May not be repeated for credit.

LATINOAM 365 / AMCULT 395 / RCSTP 362. Migrants: Understanding the Inequities in the US Agricultural Workforce

(3). (SS). May not be repeated for credit.

LATINOAM 373 / AMCULT 373 / HISTORY 373 / NATIVEAM 373. History of the U.S. West

(4; 3 in the half-term). (HU). May not be repeated for credit.

LATINOAM 381 / AMCULT 381 / FTVM 381. Latinas/Latinos and the Media

Consent of department required. (3). (HU). May not be repeated for credit.

LATINOAM 388. Field Study

Consent of instructor required. Sophomore standing. (1 - 4). (EXPERIENTIAL). (INDEPENDENT). May be repeated for a maximum of 8 credits. Offered mandatory credit/no credit.

LATINOAM 389. Reading Course in Latina/o Studies

Consent of instructor required. (1 - 4). (INDEPENDENT). May not be repeated for credit. No more than 6 credits of directed readings/internships may be counted toward the American Culture major.

LATINOAM 404 / AMCULT 404 / SOC 404. Latinas/os in the U. S.: Social Problems and Social Issues

Upperclass standing. (3). (R&E). May not be repeated for credit.

LATINOAM 405. Topics in Latina/o Studies

(1 - 4). May be elected twice for credit. May be elected more than once in the same term.

LATINOAM 440. Topics in Latina/o Studies - Spanish Language

Nine credits chosen between SPANISH 279 and 399; or two RCLANG 324 and six credits chosen between SPANISH 279 and 399. (Prerequisites enforced at registration.) (3). May be repeated for a maximum of 6 credits. May be elected more than once in the same term. Taught in Spanish.

Courses In Native American Studies (NATIVEAM)

NATIVEAM 103. First Year Seminar in Native American Studies

Enrollment restricted to first-year students, including those with sophomore standing. (3). (HU). May not be repeated for credit.

NATIVEAM 204. Themes in Native American Studies

(3 - 4; 3 in the half-term). (HU). May be elected twice for credit. May be elected more than once in the same term.

NATIVEAM 217 / AMCULT 217. Introduction to Native American Studies

(4; 3 in the half-term). (HU). May not be repeated for credit.

NATIVEAM 222 / AMCULT 222. Elementary Ojibwe I

(3; 2 in the half-term). May not be repeated for credit.

NATIVEAM 223 / AMCULT 223. Elementary Ojibwe II

NATIVEAM 222 or AMCULT 222; with a minimum grade of C- or better. (Prerequisites enforced at registration.) (3; 2 in the half-term). May not be repeated for credit.

NATIVEAM 232 / AMCULT 232 / ENGLISH 282. Introduction to Native American Literature

(3). (HU). May not be repeated for credit.

NATIVEAM 301. Topics in Native American Studies

(1 - 4). May be elected twice for credit. May be elected more than once in the same term.

NATIVEAM 310. Native American Studies and the Social Sciences

(3). (SS). May be repeated for a maximum of 6 credits. May be elected more than once in the same term.

NATIVEAM 311. Native American Studies and the Humanities

(1 - 4). (HU). May be elected twice for credit. May be elected more than once in the same term.

NATIVEAM 322 / AMCULT 322. Intermediate Ojibwe I

NATIVEAM 223 or AMCULT 223; with a minimum grade of C- or better. (Prerequisites enforced at registration.) (3; 2 in the half-term). May not be repeated for credit.

NATIVEAM 323 / AMCULT 323. Intermediate Ojibwe II

NATIVEAM 322 or AMCULT 322; with a minimum grade of C- or better. (Prerequisites enforced at registration.) (3; 2 in the half-term). (Lang Req). May not be repeated for credit.

NATIVEAM 328 / AMCULT 328 / ENGLISH 382. Studies in Native American Literature

(3). (HU). May not be repeated for credit.

NATIVEAM 333 / AMCULT 333 / ASIANPAM 333 / ENGLISH 333. Green Indigeneity

Not available to students who have completed AMCULT 311 (Topic #11) or ENGLISH 317 (Topic #33) when taught with the topic "Green Indigeneity". (Prerequisites enforced at registration.) (3 - 4). (HU). May not be repeated for credit.

NATIVEAM 338 / AMCULT 338 / HISTORY 338. Topics in Native American History

(3 - 4; 3 in the half-term). (HU). May not be repeated for credit.

NATIVEAM 367 / AMCULT 367 / HISTORY 367. American Indian History

(4; 3 in the half-term). (SS). (R&E). May not be repeated for credit.

NATIVEAM 373 / AMCULT 373 / HISTORY 373 / LATINOAM 373. History of the U.S. West

(4; 3 in the half-term). (HU). May not be repeated for credit.

NATIVEAM 388. Field Study

Consent of instructor required. Sophomore standing. (1 - 4). (EXPERIENTIAL). (INDEPENDENT). May be repeated for a maximum of 8 credits. Offered mandatory credit/no credit.

NATIVEAM 389. Reading Course in Native American Studies

Consent of instructor required. (1 - 4). (INDEPENDENT). May not be repeated for credit. No more than 6 credits of directed readings/internships may be counted toward the American Culture major.

NATIVEAM 405. Topics in Native American Studies

(1 - 4). May be elected twice for credit. May be elected more than once in the same term.

NATIVEAM 498. Capstone Seminar in Native American Studies

(3 - 4; 3 in the half-term). May be elected twice for credit. May be elected more than once in the same term.

LSA Anthropology

Courses In Anthropology, Archaeological (ANTHRARC)

ANTHRARC 180. First-Year Seminar in Anthropological Archaeology

Enrollment restricted to first-year students, including those with sophomore standing. (3). (SS). May not be repeated for credit.

ANTHRARC 181. Past Meets Present: Discovering Archaeology

(4). (SS). May not be repeated for credit.

ANTHRARC 281 / MATSCIE 281. Making Things: Three Million Years of Materials and Culture

(SS). (BS). May not be repeated for credit.

ANTHRARC 282. Doing Archaeology: Essential Theory and Methods

(4). (SS). May not be repeated for credit.

ANTHRARC 284. Aztec, Maya, and Inca Civilizations

(4). (SS). May not be repeated for credit.

ANTHRARC 285. Frauds and Fantastic Claims in Archaeology

(4). (SS). (R&E). May not be repeated for credit.

ANTHRARC 287. The Rise and Fall of Mediterranean Civilizations

(4). (SS). May not be repeated for credit.

ANTHRARC 296. Topics in Archaeology

(3). (SS). May be repeated for a maximum of 12 credits. May be elected more than once in the same term.

ANTHRARC 381 / HISTART 382 / MIDEAST 338. Introduction to Egyptian Archaeology

(4; 3 in the half-term). (HU). May not be repeated for credit.

ANTHRARC 384 / MIDEAST 337. Ancient Mesopotamia: History and Culture

Sophomore standing. (4; 3 in the half-term). (ID). May not be repeated for credit.

ANTHRARC 385. The Archaeology of Early Humans

Sophomore standing. (3). (SS). May not be repeated for credit.

ANTHRARC 386. Early Civilizations

Sophomore standing. (4; 2 in the half-term). (SS). May not be repeated for credit.

ANTHRARC 388. Gender and Archaeology

Consent of instructor required. (3). (SS). May not be repeated for credit.

ANTHRARC 392. Archaeology Underwater

(3). (SS). May not be repeated for credit.

ANTHRARC 394. Undergraduate Seminar in Archaeology

Consent of instructor required. ANTHRARC 282; and concentration in Anthropology. (3). May not be repeated for credit.

ANTHRARC 399. Honors in Anthropological Archaeology

Senior standing and permission of instructor. (Prerequisites enforced at registration.) (3). May be repeated for a maximum of 6 credits. W.

ANTHRARC 482. Topics in Anthropological Archaeology

Consent of instructor required. Junior standing. (3). May be elected twice for credit. May be elected more than once in the same term.

ANTHRARC 483. Near Eastern Prehistory

Junior standing. (3). May not be repeated for credit.

ANTHRARC 487. UM Training Program in Archaeology

(6). May not be repeated for credit. May not be used toward the Anthropology academic minors.

ANTHRARC 494. Introduction to Analytical Methods in Archaeology

Consent of instructor required. One course in statistics and junior standing. (3). May not be repeated for credit.

ANTHRARC 497. Museum Anthropology

Junior standing. (3). May not be repeated for credit.

ANTHRARC 499. Undergraduate Reading and Research in Anthropology

Consent of instructor required. (1 - 3). (INDEPENDENT). May be repeated for a maximum of 6 credits. May be elected more than once in the same term. May not be used toward the Anthropology academic minors.

Courses In Anthropology, Biological (ANTHRBIO)

ANTHRBIO 167 / ENVIRON 167. Evolution, Environment, and Global Health

(4). (NS). (BS). May not be repeated for credit.

ANTHRBIO 201. How Humans Evolved

(4). (NS). (BS). May not be repeated for credit.

ANTHRBIO 297. Topics in Biological Anthropology

(3). (NS). (BS). May be repeated for a maximum of 12 credits. May be elected more than once in the same term.

ANTHRBIO 342 / ANTHRCUL 342. Nature/Culture Now!

ANTHRCUL 101. (4). (SS). (BS). May not be repeated for credit.

ANTHRBIO 362 / EEB 362 / ENVIRON 362. Primate Evolutionary Ecology

An introductory course on primates, ecology, or conservation biology is advised. No quantitative or statistical training is required. (4). (NS). (BS). May not be repeated for credit.

ANTHRBIO 364. Nutrition and Evolution

Sophomore standing. (4; 3 in the half-term). (NS). (BS). May not be repeated for credit.

ANTHRBIO 365. Human Evolution

Sophomore or Junior or Senior. (Prerequisites enforced at registration.) High school biology is assumed. (4). (NS). (BS). May not be repeated for credit.

ANTHRBIO 366. Born to Run: Evolution of the Human Body

(4). (NS). (BS). May not be repeated for credit.

ANTHRBIO 368 / PSYCH 338. Primate Behavior

(4). (NS). (BS). May not be repeated for credit. F.

ANTHRBIO 369. Topics in Biological Anthropology

(3). (BS). May be repeated for a maximum of 9 credits. May be elected more than once in the same term.

ANTHRBIO 370. U.G. Reading and Research in Anthropology

Consent of instructor required. (1 - 3). (INDEPENDENT). May be repeated for a maximum of 6 credits.

ANTHRBIO 371. Techniques in Biological Anthropology

Consent of instructor required. (1 - 3). (BS). May be repeated for a maximum of 6 credits. May not be included in a concentration plan in Anthropology.

ANTHRBIO 373. Humans and Environmental Change

ANTHRBIO 201. (3). (NS). (BS). May not be repeated for credit.

ANTHRBIO 398. Honors in Biological and Evolutionary Anthropology

Seniors Only. Consent of instructor required. (Prerequisites enforced at registration.) (3). (BS). (INDEPENDENT). May be elected twice for credit. Continuing Course. Y grade can be reported at end of the first-term to indicate work in progress. At the end of the second term of ANTHR BIO 399, the final grade is posted for both term's elections. F.

ANTHRBIO 399. Honors in Biological and Evolutionary Anthropology

Seniors Only. Consent of instructor required. (Prerequisites enforced at registration.) Senior standing. (3). (BS). (INDEPENDENT). May be repeated for a maximum of 6 credits. W.

ANTHRBIO 450. Molecular Anthropology

ANTHRBIO 201; and BIOLOGY 171 and either 172 or 174, or BIOLOGY 192 or 195. (4). (BS). May not be repeated for credit.

ANTHRBIO 453. Developmental Origins of Health and Disease: Evolutionary, Epigenetic, and Epidemiological Approaches

ANTHRBIO 201; and BIOLOGY 171, 172 or 174, 173; or BIOLOGY 195 and 173. (3). (BS). May not be repeated for credit. Rackham credit requires additional work.

ANTHRBIO 461 / ENVIRON 461. Primate Conservation Biology

An introductory course on primates, ecology, or conservation biology is advised. No quantitative or statistical training is required. (3). (BS). May not be repeated for credit.

ANTHRBIO 462. Human Growth and Development Across the Life Cycle

ANTHRBIO 201, 364, 365 or 465. (4). (BS). May not be repeated for credit.

ANTHRBIO 463 / ENVIRON 473 / PSYCH 463. Statistical Modeling and Data Visualization in R

Basic knowledge of statistics (e.g., linear regression). Some prior experience with R is advisable, but not required. (4). (BS). (QR/1). May not be repeated for credit. Rackham credit requires additional work.

ANTHRBIO 464 / PSYCH 460. Behavioral Biology of Women

(3). (BS). May not be repeated for credit. Rackham credit requires additional work.

ANTHRBIO 465. Primate Functional Anatomy

ANTHRBIO 201, 365, 366 or 368. (3). (BS). May not be repeated for credit. Rackham credit requires additional work.

ANTHRBIO 468 / PSYCH 468. Evolutionary Endocrinology

PSYCH 235, PSYCH 335, PSYCH 337, or EEB 492. (3). (BS). May not be repeated for credit. Rackham credit requires additional work.

ANTHRBIO 469. Topics in Biological Anthropology

Consent of instructor required. (2 - 4; 2 - 3 in the half-term). (BS). May be repeated for a maximum of 9 credits. May be elected more than once in the same term.

ANTHRBIO 471. Research in Biological Anthropology

Consent of instructor required. (1 - 4). (BS). May be repeated for a maximum of 9 credits. May be elected more than once in the same term.

ANTHRBIO 472. Human Nature

Consent of instructor required. ANTHRBIIO 467. (2). (BS). May not be repeated for credit.

ANTHRBIO 474. Hominin Origins

ANTHRBIO 201 and/or an introductory biology class. (4). (BS). May not be repeated for credit.

ANTHRBIO 476. Evolution of the Human Diet

ANTHRBIO 201. (3). (BS). May not be repeated for credit. Rackham credit requires additional work.

ANTHRBIO 478 / PSYCH 469. Advanced Primate Behavior

Consent of instructor required. PSYCH 235 or ANTHRBIIO 368/PSYCH 338. (3). (BS). May not be repeated for credit.

Courses In Anthropology, Cultural (ANTHRCUL)**ANTHRCUL 101. Introduction to Anthropology**

(4). (SS). (R&E). May not be repeated for credit. Does not count toward requirements for the Anthropology major. F, W, Sp.

ANTHRCUL 158. First Year Seminar in Anthropology

Enrollment restricted to first-year students, including those with sophomore standing. (3). (SS). May not be repeated for credit. May not be included in an Anthropology major.

ANTHRCUL 222. The Comparative Study of Cultures

(4; 2 in the half-term). (SS). May not be repeated for credit.

ANTHRCUL 226 / HISTORY 229. Introduction to Historical Anthropology

(3). (SS). May not be repeated for credit.

ANTHRCUL 235. Crime, Criminalization and Punishment

(4). (SS). (R&E). May not be repeated for credit.

ANTHRCUL 237. Digital Futures: Media Technologies and Social Transformation Around the World

(4). (SS). (R&E). May not be repeated for credit.

ANTHRCUL 246 / ISLAM 246 / RELIGION 246. Anthropology of Religion

(4). (HU). May not be repeated for credit.

ANTHRCUL 254. The Anthropology of Food

(4). (SS). May not be repeated for credit.

ANTHRCUL 256 / ENVIRON 256. Culture, Adaptation, and Environment

(3). (SS). May not be repeated for credit.

ANTHRCUL 258. Honors Seminar in Anthropology

LSA Honors. (Prerequisites enforced at registration.) Honors students with sophomore standing or above. (3). (SS). May not be repeated for credit.

ANTHRCUL 272 / LING 272. Language in Society

Primarily for first- and second-year students. (4). (SS). (R&E). May not be repeated for credit. Primarily for first- and second-year students. W.

ANTHRCUL 298. Topics in Sociocultural Anthropology

(3; 2 - 3 in the half-term). (SS). May be repeated for a maximum of 12 credits. May be elected more than once in the same term.

ANTHRCUL 299. Topics in Linguistic Anthropology

(3). (SS). May be repeated for a maximum of 12 credits.

ANTHRCUL 314 / AMCULT 313 / LATINOAM 313. Cuba and its Diaspora

(3). (SS). (R&E). May not be repeated for credit. F.

ANTHRCUL 317 / HISTORY 228 / POLSCI 334 / REEES 397 / SLAVIC 397 / SOC 317. Communism and Capitalism in Eastern Europe

(4). (SS). May not be repeated for credit. No credit granted to those who have completed or are enrolled in REEES 396 or SLAVIC 396 or POLSCI 396 or HISTORY 333 or SOC 393. May not be counted in a Slavic Department academic minor.

ANTHRCUL 319. Latin American Society and Culture

(3). (SS). (R&E). May not be repeated for credit.

ANTHRCUL 320. Mexico: Culture and Society

(3). (SS). May not be repeated for credit.

ANTHRCUL 325 / WGS 324. Childbirth & Culture

Sophomore standing. (4). (SS). May not be repeated for credit.

ANTHRCUL 327 / RCSTP 327 / STS 327 / WGS 307. Critical Theory in Medicine and Healing

One course in ANTHRCUL or RCSSCI or RCSTP or WGS/AMCULT 240 (WOMENSTD/AMCULT 240) or WGS (WOMENSTD) with an SS designation. (4). (SS). May not be repeated for credit.

ANTHRCUL 330. Culture, Thought, and Meaning

(4). (HU). May not be repeated for credit.

ANTHRCUL 332. Exchange, Commodities, and Money

Sophomore standing. (4; 3 in the half-term). (SS). May not be repeated for credit.

ANTHRCUL 335 / AAS 335 / WGS 339. Medical Anthropologies of Kinship, Relatedness, and the Human

(3). (SS). May not be repeated for credit.

ANTHRCUL 337. Death, Dying and the Afterlife

(4). (SS). May not be repeated for credit.

ANTHRCUL 340. Animality and the Human Question
 (3). (SS). May not be repeated for credit.

ANTHRCUL 341 / STS 341. The Globalization of Biomedicine
 (4). (SS). May not be repeated for credit.

ANTHRCUL 342 / ANTHRBIO 342. Nature/Culture Now!
 ANTHRCUL 101. (4). (SS). (BS). May not be repeated for credit.

ANTHRCUL 344 / STS 344. Medical Anthropology
 ANTHRCUL 101 or 222; or sophomore and above. (Prerequisites enforced at registration.) (4). (SS). May not be repeated for credit.

ANTHRCUL 346 / HISTORY 347. Latin America: The Colonial Period
 (1 - 5; 3 in the half-term). (SS). (R&E). May not be repeated for credit.

ANTHRCUL 348 / INTLSTD 381 / MIDEAST 381. Anthropology of Islam
 (3). (SS). May not be repeated for credit.

ANTHRCUL 350 / INTLSTD 350. Corporations and Democracy
 (4). (SS). May not be repeated for credit.

ANTHRCUL 352. Anthropology of the Body
 (3). (SS). May not be repeated for credit.

ANTHRCUL 353 / AAS 353. Urban Ethnography and the Black Experience
 (3). (SS). May not be repeated for credit.

ANTHRCUL 355 / AAS 355 / HISTORY 355. Health and Illness in African Worlds
 (4; 3 in the half-term). (R&E). May not be repeated for credit.

ANTHRCUL 356. Topics in Sociocultural Anthropology
 ANTHRCUL 101. (3). (SS). May be repeated for a maximum of 9 credits. May be elected more than once in the same term.

ANTHRCUL 357. Seminar in Sociocultural Anthropology
 A course in cultural anthropology and junior standing. (3; 2 in the half-term). (SS). May be repeated for a maximum of 9 credits. May be elected more than once in the same term.

ANTHRCUL 359. Ethnographic Methods
 ANTHRCUL 101. (3). (SS). May not be repeated for credit.

ANTHRCUL 365 / AAS 365 / WGS 365. Global Perspectives on Gender, Health, and Reproduction
 One course in either Women's & Gender Studies or AAS. (3). (SS). May not be repeated for credit.

ANTHRCUL 370 / LING 370. Language and Discrimination: Language as Social Statement
 (3). (SS). (R&E). May not be repeated for credit.

ANTHRCUL 374 / LING 374. Language and Culture
 Sophomore standing. (4). (HU). May not be repeated for credit.

ANTHRCUL 404. Peoples and Cultures of Southeast Asia
 ANTHRCUL 101 or 222. (3; 2 in the half-term). May not be repeated for credit.

ANTHRCUL 409. Peoples and Cultures of the Near East and North Africa
 Junior standing. (3; 2 in the half-term). May not be repeated for credit.

ANTHRCUL 428 / RCSTP 428 / WGS 428. Sex Panics in the US and UK since 1890
 One course in WGS (WOMENSTD) or ANTHRCUL or RCSSCI, SOC, or HISTORY. (3). May not be repeated for credit.

ANTHRCUL 430 / HISTORY 430 / MIDEAST 480. History, Memory, and Silence in the Middle East
 (3). May not be repeated for credit.

ANTHRCUL 435. Anthropology of Resentment
 (3). May not be repeated for credit.

ANTHRCUL 440. Environmental Anthropology
 Junior standing or above. (3). May not be repeated for credit.

ANTHRCUL 446 / WGS 446. Sex and the City: Urban Geography and Sexual Locations
 At least one course in Anthropology, History, Women's & Gender Studies, Sociology, LGBTQ Studies, or Urban Studies/Urban Planning. (3). May not be repeated for credit.

ANTHRCUL 450. Anthropologies of Insurgency: Bandits, Rebels and Freedom Fighters
 (3). May not be repeated for credit.

ANTHRCUL 454 / HISTORY 474 / WGS 454. What is Marriage?: Histories and Structures of Marital Institutions
 One course in Women's and Gender Studies, Cultural Anthropology, or History. (3). May not be repeated for credit. Rackham credit requires additional work.

ANTHRCUL 456. Global Supply Chains: Anthropology of Transborder Trade
 One course with the subject of ANTHRCUL. (3). May not be repeated for credit. Rackham credit requires additional work.

ANTHRCUL 458. Topics in Sociocultural and Linguistic Anthropology
 Consent of instructor required. Junior and above. (3). May be repeated for a maximum of 9 credits. May be elected more than once in the same term.

ANTHRCUL 464. Language, Culture, and Society in South Asia
 Junior and above. (Prerequisites enforced at registration.) (3). May not be repeated for credit. Rackham credit requires additional work.

ANTHRCUL 471 / LING 471. Face-to-Face Interaction
 (3). May not be repeated for credit.

ANTHRCUL 473 / LING 473. Oral Narrative and Poetics
 Two courses in anthropology, linguistics, or literature or permission of instructor. (3; 2 in the half-term). May not be repeated for credit.

ANTHRCUL 476. Body Talk, Body Politics
 One course in anthropology or linguistics. (3). May not be repeated for credit.

ANTHRCUL 497. Honors in Sociocultural and Linguistic Anthropology
 Seniors Only. (Prerequisites enforced at registration.) (3). May not be repeated for credit.

ANTHRCUL 498. Honors in Sociocultural and Linguistic Anthropology
 Senior standing. (Prerequisites enforced at registration.) (3). May not be repeated for credit.

ANTHRCUL 499. Undergraduate Reading and Research in Anthropology

Consent of instructor required. (1 - 3). (INDEPENDENT). May be repeated for a maximum of 6 credits. May be elected more than once in the same term. A maximum of three credits of independent reading may be included in a concentration plan in Anthropology. F, W, Sp/Su, Sp, Su.

ANTHRCUL 553. Blurred Genres: Autobiography, Fiction & Ethnography

400-level coursework in Anthropology, Graduate standing, and permission of instructor. (3). May not be repeated for credit.

ANTHRCUL 577. Language as Social Action

Consent of instructor required. ANTHRCUL 576. (3). May not be repeated for credit.

LSA Applied Physics

Courses In Applied Physics (APPPHYS)

APPPHYS 530 / ECE 530. Electromagnetic Theory I

PHYSICS 438 or EECS 330. (3). (BS). May not be repeated for credit. F.

APPPHYS 540 / ECE 540. Applied Quantum Mechanics

Permission of instructor. (3). (BS). May not be repeated for credit.

APPPHYS 541 / ECE 541. Applied Quantum Mechanics II

APPPHYS 540. (3). (BS). May not be repeated for credit. W.

APPPHYS 672 / NERS 572. Plasma and Controlled Fusion II

NERS 571. (3). (BS). May not be repeated for credit.

LSA Asian Languages & Cultures

Courses In Asian Studies (ASIAN)

ASIAN 200 / HISTORY 203. Introduction to Japanese Civilization: Japan Before Today

(3). (HU). May not be repeated for credit.

ASIAN 204 / HISTORY 204. East Asia: Early Transformations

(4; 3 in the half-term). (HU). (R&E). May not be repeated for credit.

ASIAN 205 / HISTORY 205. Modern East Asia

(4; 3 in the half-term). (SS). (R&E). May not be repeated for credit.

ASIAN 206 / HISTORY 206. Indian Civilization

(4; 3 in the half-term). (HU). May not be repeated for credit.

ASIAN 207 / HISTORY 207. Southeast Asian Civilization

(4; 3 in the half-term). (SS). (R&E). May not be repeated for credit.

ASIAN 210 / HISTORY 219. The Philippines: Culture and History

(3). (HU). (R&E). May not be repeated for credit.

ASIAN 220 / RELIGION 202. Philosophy and Religion in Asia

(4). (HU). May not be repeated for credit.

ASIAN 225 / RELIGION 225. Introduction to Hinduism

(4). (HU). May not be repeated for credit.

ASIAN 230 / PHIL 230 / RELIGION 230. Introduction to Buddhism

(4). (HU). May not be repeated for credit. May not be included in a concentration plan in Philosophy.

ASIAN 231 / RELIGION 231. Introduction to Tibetan Buddhism

(4). (HU). May not be repeated for credit.

ASIAN 234 / RELIGION 234. Buddhism and Death

(3). (HU). May not be repeated for credit.

ASIAN 235. Introduction to Asian Studies

(4). (HU). May not be repeated for credit. Taught in English.

ASIAN 241 / HISTORY 251. The Chinese Renaissance: Cultural Transformations in Eleventh-Century China

(3). (ID). May not be repeated for credit.

ASIAN 243 / HISTART 243. Introduction to South Asian Art: Art of India

(3). (HU). May not be repeated for credit.

ASIAN 246. Make it New: Modernism and Modern Life in Japan

(4). (HU). May not be repeated for credit.

ASIAN 248 / HISTORY 248 / RELIGION 248. Jesus Comes to Asia: Conversion and its Consequences in Asia

(4). (HU). (R&E). May not be repeated for credit.

ASIAN 250. Undergraduate Seminar in Buddhist Studies

No knowledge of an Asian language required. (3). (HU). May not be repeated for credit.

ASIAN 251. Undergraduate Seminar in Chinese Culture

No knowledge of Chinese language is required. (3). (HU). May not be repeated for credit.

ASIAN 253. Undergraduate Seminar in South and Southeast Asian Culture

No knowledge of any Asian language required. (3). (HU). May be elected twice for credit.

ASIAN 254. Undergraduate Seminar in Korean Culture

No knowledge of Korean language is required. (3). (HU). May be repeated for a maximum of 6 credits.

ASIAN 255. Undergraduate Seminar in Asian Studies

(3). (HU). May be elected twice for credit. May be elected more than once in the same term.

ASIAN 257. Great Cities in Asia

(4). (HU). May be elected twice for credit. No credit granted to those who have taken the course under the same topic.

ASIAN 258 / ENVIRON 258. Food and Drink of Asia
 (4). (HU). May not be repeated for credit.

ASIAN 259 / HISTORY 255. Modern India and South Asia
 (4; 3 in the half-term). (HU). (R&E). May not be repeated for credit.

ASIAN 260 / HISTORY 252. Introduction to Chinese Civilization
 (4). (HU). (R&E). May not be repeated for credit. No assumed knowledge of Chinese history, culture, or language required.

ASIAN 262. Twenty-five Ways that China Changed the World
 (4). (HU). May not be repeated for credit.

ASIAN 263 / PHIL 263. Introduction to Chinese Philosophy
 (4). (HU). May not be repeated for credit.

ASIAN 264. Looking at Traditional China Through its Most Famous Novel, The Story of the Stone
 (3). (HU). May not be repeated for credit.

ASIAN 265 / HISTORY 297. Health and Disease in Chinese History
 No credit in HISTORY 230 with the topic: "Health and Disease in Chinese History: From Acupuncture to the Nobel Prize". (Prerequisites enforced at registration.) (3). (HU). May not be repeated for credit.

ASIAN 271. Spectacular History of Korea: Visualizing Events
 (3). (HU). May not be repeated for credit.

ASIAN 273 / RCHUMS 273. North Korea: Real and Imagined
 (4). (ID). May not be repeated for credit.

ASIAN 274 / HISTORY 249. Introduction to Korean Civilization
 (3). (HU). May not be repeated for credit.

ASIAN 277 / AMCULT 277. From Truman to Trump: Introduction to US-Korea Relations
 (4). (HU). May not be repeated for credit.

ASIAN 280. Topics in Asian Studies
 (3). (HU). May be elected twice for credit.

ASIAN 292 / HISTART 292. Introduction to Japanese Art and Culture
 (4). (HU). May not be repeated for credit. No credit granted to those who have completed or are enrolled in HISTART 495.

ASIAN 296. Study Abroad in Asia
 Consent of instructor required. (1 - 3). (EXPERIENTIAL). May be elected twice for credit.

ASIAN 297. Mini Course in Asian Studies
 (1 - 2). (HU). May be elected three times for credit.

ASIAN 300. Love and Death in Japanese Culture
 A knowledge of Japanese is not required. (3). (HU). May not be repeated for credit.

ASIAN 302. Rewriting Identities in Modern Japan
 Knowledge of Japanese is not required. (3). (HU). May not be repeated for credit.

ASIAN 304 / HISTART 304. The Art of Yoga
 (3). (ID). May not be repeated for credit.

ASIAN 305 / RELIGION 305. Religion and Violence in the Secular World
 (4). (HU). May not be repeated for credit.

ASIAN 311. The Image of the Samurai
 (4). (HU). May not be repeated for credit.

ASIAN 314. Strange Ways: Literature of the Supernatural in Pre-modern Japan and China
 (3). (HU). May not be repeated for credit.

ASIAN 315. The Lives of the Buddha, from India to Manga
 (3). (HU). May not be repeated for credit.

ASIAN 320. Japanese Performance Culture
 (3). (HU). May not be repeated for credit.

ASIAN 324 / HISTORY 325 / ISLAM 325 / MEMS 325 / MIDEAST 375 / RELIGION 325. The History of Islam in South Asia
 (4). (HU). (R&E). May not be repeated for credit.

ASIAN 325 / RELIGION 323. Zen: History, Culture, and Critique
 (4). (HU). May not be repeated for credit.

ASIAN 326. Introduction to Japanese Buddhism
 ASIAN 230. (3). (HU). May not be repeated for credit.

ASIAN 328 / RELIGION 328. Introduction to Theravada Buddhism
 (3). (HU). May not be repeated for credit.

ASIAN 333. Language Justice in South Asia
 (4). (HU). May not be repeated for credit.

ASIAN 334. Race, Religion, and Caste in India and America
 (4). (ID). (R&E). May not be repeated for credit.

ASIAN 335 / HISTART 335. Himalayas: An Aesthetic Exploration
 Undergraduate and graduate students seeking to enroll for this course should have completed at least one course on the arts/languages/religions of South/Central/East Asia. (3). (HU). May not be repeated for credit.

ASIAN 337. The Great Indian Epics
 (3). (HU). May not be repeated for credit.

ASIAN 338. Humanities Topics in South Asian Studies
 At least one previous course on South Asia. Students are not permitted to elect the same topic twice. (3). (HU). May be elected twice for credit. May be elected more than once in the same term.

ASIAN 340 / HISTORY 340 / MENAS 340 / MIDEAST 340 / REEES 340. From Genghis Khan to the Taliban: Modern Central Asia
 (4; 3 - 4 in the half-term). (SS). (R&E). May not be repeated for credit.

ASIAN 342 / WGS 332. Gender and Power in Southeast Asia

(3). (HU). May not be repeated for credit.

ASIAN 349 / PHIL 349. Confucianism: Reinventions of Tradition

ASIAN 220 or ASIAN 263/PHIL 263. (3). (HU). May not be repeated for credit.

ASIAN 351 / ENVIRON 351 / INTLSTD 351. Chinese Food in Crisis: Health, Ecology, and Identity in an Age of Globalization

ASIAN 258, ASIAN 366, or coursework in Chinese Studies or Sustainability. (3). (ID). May not be repeated for credit.

ASIAN 352 / WGS 352. Gender, Sexuality, and Power in Premodern China

At least one course in Asian studies or Women's studies. (3). (HU). May not be repeated for credit.

ASIAN 353. China Around the World: Power, Politics, and Translation

(3). (HU). May not be repeated for credit.

ASIAN 354 / HISTORY 354. Modern China

(4; 3 in the half-term). (SS). May not be repeated for credit.

ASIAN 359. Crime and Detection in Chinese Literature

(3). (HU). May not be repeated for credit.

ASIAN 361. Humanities Topics in Chinese Studies

At least one prior course on China. Students are not permitted to elect the same topic twice. (3). (HU). May be elected twice for credit. May be elected more than once in the same term.

ASIAN 362. The Travels of the Monkey King in China and Abroad

(3). (HU). May not be repeated for credit.

ASIAN 374. Korean War in Fiction and Film

(3). (HU). May not be repeated for credit.

ASIAN 376. Controversies in Contemporary Korea

(3). (ID). May not be repeated for credit.

ASIAN 377. K-Pop and Beyond: Popular Culture and Korean Society

(3). (HU). May not be repeated for credit.

ASIAN 378. Seoul: History and Places

(3). (ID). May not be repeated for credit.

ASIAN 380. Topics in Asian Studies

(3). May be repeated for a maximum of 6 credits.

ASIAN 381. Junior/Senior Research Seminar for Majors

Declared major in Asian Studies. (Prerequisites enforced at registration.) (3). May not be repeated for credit.

ASIAN 389. Culture in East Asian Business, Past and Present

At least one Asian culture course on history, economics, politics, or popular culture. (4). (ID). May not be repeated for credit.

ASIAN 390. Spirituality and Consciousness

Students are recommended to have the following before coming to this course: (i) any 200-level humanities course; (ii) any 100-level natural science course (or equivalent); or (iii) an interest in consciousness studies or mindfulness studies if possible. (3). May not be repeated for credit.

ASIAN 394 / HISTART 392. Anime to Zen: Japanese Art through Contemporary Popular Culture

(4). (HU). May not be repeated for credit.

ASIAN 396. Asian Studies Internship Reflection Seminar

(1). May be elected twice for credit.

ASIAN 397. Mini Course in Asian Studies

At least one course in Asian studies, especially on the topic addressed in the course. (1 - 2). (HU). May be elected three times for credit.

ASIAN 408 / HISTORY 438 / WGS 408. Gender and Health in East Asia: Historical and Contemporary Perspectives

(3). May not be repeated for credit.

ASIAN 415 / HISTORY 415. Law and Society in Late Imperial and Modern China

Junior or senior standing. No prior knowledge of China or Chinese required. (3). May not be repeated for credit. Rackham credit requires additional work.

ASIAN 422. Topics in Southeast Asian Studies

(3). May be elected twice for credit.

ASIAN 428 / POLSCI 339. China's Evolution Under Communism

Upperclass standing. (4; 3 in the half-term). May not be repeated for credit.

ASIAN 440. National Cinema of Asia

(3). May be repeated for a maximum of 6 credits.

ASIAN 442. Topics in Japanese Studies

(3). May be elected twice for credit.

ASIAN 443. Literature of Empire

This course contains some Japanese-language texts; concurrent enrollment in third-year Japanese or the equivalent background recommended. No knowledge of German is required. (3). May not be repeated for credit.

ASIAN 450 / HISTORY 450. Japan to 1700: Origin Myth to Shogun Dynasty

(3). May not be repeated for credit. Rackham credit requires additional work.

ASIAN 457. Translating Korean Poetry: Theory and Practice

Third-year proficiency in Korean. (3). May not be repeated for credit.

ASIAN 459 / SOC 427. Sociology of Contemporary Korea

(3). May not be repeated for credit.

ASIAN 470. Saga of the Three Kingdoms: From History to Videogames

(3). May not be repeated for credit. Rackham credit requires additional work.

ASIAN 472. Topics in Chinese Studies

(3). May be elected twice for credit.

ASIAN 475. Japanese Cinema

A knowledge of JAPANESE is not required. (3). May not be repeated for credit.

ASIAN 480. Topics in Asian Studies

(3). May be elected four times for credit. May be elected more than once in the same term.

ASIAN 485 / RELIGION 485. Religion in China

Consent of instructor required. ASIAN 230 or permission of instructor. (3). May be repeated for a maximum of 6 credits.

ASIAN 490 / PUBPOL 428 / SOC 428. Contemporary China

One introductory course in sociology. (3). May not be repeated for credit. Rackham credit requires additional work.

ASIAN 495. Honors Thesis

Consent of instructor required. Honors candidate in Asian Studies. (1 - 3). (INDEPENDENT). May be repeated for a maximum of 6 credits.

ASIAN 499. Independent Study-Directed Readings

Consent of instructor required. (1 - 4). (INDEPENDENT). May be repeated for a maximum of 8 credits. F, W, Sp/Su, Sp, Su.

Courses In Asian Languages (ASIANLAN)**ASIANLAN 100. First-year Chinese I (for Advanced Beginners)**

By assignment of ASIANLAN 100 by Placement Test. (Prerequisites enforced at registration.) (3). May not be repeated for credit. No credit granted to those who have completed or are enrolled in ASIANLAN 101, 103, or 104.

ASIANLAN 101. First Year Chinese I

Native or near-native speakers of Chinese are not eligible for this course. (5). May not be repeated for credit. No credit granted to those who have completed or are enrolled in ASIANLAN 100, 102, 103, or 104.

ASIANLAN 102. First Year Chinese II

ASIANLAN 100 or 101 with a minimum grade of C- or by Assignment of ASIANLAN 102 by Placement Test. (Prerequisites enforced at registration.) (5). May not be repeated for credit. No credit granted to those who have completed or are enrolled in ASIANLAN 103 or 104.

ASIANLAN 104. First Year Chinese for Heritage Speakers

By assignment of ASIANLAN 104 by Placement Test. (Prerequisites enforced at registration.) (4). May not be repeated for credit. No credit granted to those who have completed or are enrolled in ASIANLAN 100, 101, 102, or 103.

ASIANLAN 105. Mandarin Pronunciation

ASIANLAN 100 or 101. (Prerequisites enforced at registration.) (1). May not be repeated for credit.

ASIANLAN 108. Chinese Characters

ASIANLAN 100 or 101. (Prerequisites enforced at registration.) (1). May not be repeated for credit.

ASIANLAN 111. First Year Filipino I

(4). May not be repeated for credit.

ASIANLAN 112. First Year Filipino II

ASIANLAN 111 or by assignment of ASIANLAN 112 by Placement Test. (Prerequisites enforced at registration.) (4). May not be repeated for credit. Filipino will serve as medium of instruction.

ASIANLAN 115. First Year Hindi I

(4). May not be repeated for credit. No credit granted to those who have completed or are enrolled in ASIANLAN 117. Students with prior knowledge of Hindi are encouraged to take ASIANLAN 118.

ASIANLAN 116. First Year Hindi II

ASIANLAN 115 or by assignment of ASIANLAN 116 by Placement Test. (Prerequisites enforced at registration.) (4). May not be repeated for credit. No credit granted to those who have completed or are enrolled in ASIANLAN 117.

ASIANLAN 121. First Year Indonesian I

(4). May not be repeated for credit.

ASIANLAN 122. First Year Indonesian II

ASIANLAN 121 or by assignment of ASIANLAN 122 by Placement Test. (Prerequisites enforced at registration.) (4). May not be repeated for credit.

ASIANLAN 123. First-Year Japanese through Anime and Manga

Placement of ASIANLAN 123 on an exam given by the Japanese Language Program. (Prerequisites enforced at registration.) (3). May not be repeated for credit. No credit granted to those who have completed or are enrolled in ASIANLAN 125, ASIANLAN 126, ASIANLAN 127.

ASIANLAN 124. First-Year Japanese through Anime and Manga II

ASIANLAN 123 or ASIANLAN 125. (Prerequisites enforced at registration.) (3). May not be repeated for credit. No credit granted to those who have completed or are enrolled in ASIANLAN 126 and ASIANLAN 127.

ASIANLAN 125. First Year Japanese I

(5). May not be repeated for credit. Native or near-native speakers of Japanese are not eligible for this course. No credit granted to those who have completed or are enrolled in ASIANLAN 123, 124, 127, 129 or RCLANG 196.

ASIANLAN 126. First Year Japanese II

(ASIANLAN 123 or 125) or by Assignment of ASIANLAN 126 by Placement Test. (Prerequisites enforced at registration.) (5). May not be repeated for credit. No credit granted to those who have completed or are enrolled in ASIANLAN 124, 127, or 129 or RCLANG 196.

ASIANLAN 128. Japanese Kanji and Calligraphy: Learning Strategies and Orthography

One of ASIANLAN 126, 127, or 129 or RCLANG 196, completed with a minimum grade of C- or better. (Prerequisites enforced at registration.) (2). May not be repeated for credit.

ASIANLAN 129. Intensive Japanese I

Consent of instructor required. (10). May not be repeated for credit. No credit granted for students who have completed or are enrolled in ASIANLAN 125, 126 or 127.

ASIANLAN 135. First Year Korean I

(5). May not be repeated for credit. Native or near-native speakers of Korean are not eligible for this course. No credit granted to those who have completed or are enrolled in ASIANLAN 137.

ASIANLAN 136. First Year Korean II

ASIANLAN 135 or by assignment of ASIANLAN 136 by Placement Test. (Prerequisites enforced at registration.) (5). May not be repeated for credit. No credit granted to those who have completed or are enrolled in ASIANLAN 137.

ASIANLAN 138. Accelerated Korean I

Assignment of ASIANLAN 138 by Placement Test. (Prerequisites enforced at registration.) (5). May not be repeated for credit. No credit granted to those who have completed or are enrolled in ASIANLAN 135, 136, or 137.

ASIANLAN 145. First Year Punjabi I

(4). May not be repeated for credit.

ASIANLAN 146. First Year Punjabi II

ASIANLAN 145 or by assignment of ASIANLAN 146 by Placement Test. (Prerequisites enforced at registration.) (4). May not be repeated for credit.

ASIANLAN 151. First Year Sanskrit I

(4). May not be repeated for credit.

ASIANLAN 152. First Year Sanskrit II

ASIANLAN 151. (Prerequisites enforced at registration.) (4). May not be repeated for credit. No credit granted to those who have completed or are enrolled in SSEA 369.

ASIANLAN 155. First Year Tamil I

(4). May not be repeated for credit. No credit granted to those who have completed or are enrolled in ASIANLAN 157.

ASIANLAN 156. First Year Tamil II

ASIANLAN 155. (Prerequisites enforced at registration.) (4). May not be repeated for credit. No credit granted to those who have completed or are enrolled in ASIANLAN 157.

ASIANLAN 161. First Year Thai I

(4). May not be repeated for credit.

ASIANLAN 162. First Year Thai II

ASIANLAN 161 or by assignment of ASIANLAN 162 by Placement Test. (Prerequisites enforced at registration.) (4). May not be repeated for credit.

ASIANLAN 171. First Year Urdu I

(4). May not be repeated for credit.

ASIANLAN 172. First Year Urdu II

ASIANLAN 171 or by assignment of ASIANLAN 172 by Placement Test. (Prerequisites enforced at registration.) (4). May not be repeated for credit.

ASIANLAN 175. First Year Vietnamese I

(4). May not be repeated for credit.

ASIANLAN 176. First Year Vietnamese II

ASIANLAN 175 or by assignment of ASIANLAN 176 by Placement Test. (Prerequisites enforced at registration.) (4). May not be repeated for credit.

ASIANLAN 185. First Year Bengali I

(4). May not be repeated for credit.

ASIANLAN 186. First Year Bengali II

ASIANLAN 185 or permission of instructor. (4). May not be repeated for credit.

ASIANLAN 201. Second Year Chinese I

(ASIANLAN 102 or 103) or by Assignment of ASIANLAN 201 by Placement Test. (Prerequisites enforced at registration.) Native or near-native speakers of Chinese are not eligible for this course. (5). May not be repeated for credit. No credit granted to those who have completed or are enrolled in ASIANLAN 203. Students who are native or near-native Mandarin Chinese speakers are not eligible for this course.

ASIANLAN 202. Second Year Chinese II

ASIANLAN 201 with a minimum grade of C- or by Assignment of ASIANLAN 202 by Placement Test. (Prerequisites enforced at registration.) (5). (Lang Req). May not be repeated for credit. No credit granted to those who have completed or are enrolled in ASIANLAN 203. Students who are native or near-native Mandarin Chinese speakers are not eligible for this course.

ASIANLAN 204. Second Year Chinese for Heritage Speakers

ASIANLAN 104 or by assignment of ASIANLAN 204 by Placement Test. (Prerequisites enforced at registration.) (4). (Lang Req). May not be repeated for credit. No credit granted to those who have completed or are enrolled in ASIANLAN 201, 202, or 203. conducted in Chinese.

ASIANLAN 211. Second Year Filipino I

ASIANLAN 112 or by assignment of ASIANLAN 211 by Placement Test. (Prerequisites enforced at registration.) (4). May not be repeated for credit.

ASIANLAN 212. Second Year Filipino II

ASIANLAN 211 or by assignment of ASIANLAN 212 by Placement Test. (Prerequisites enforced at registration.) (4). (Lang Req). May not be repeated for credit.

ASIANLAN 215. Second Year Hindi I

ASIANLAN 116 or 117 or 118 or by assignment of ASIANLAN 215 by Placement Test. (Prerequisites enforced at registration.) (4). May not be repeated for credit. No credit granted to those who have completed or are enrolled in ASIANLAN 217.

ASIANLAN 216. Second Year Hindi II

ASIANLAN 215 or by assignment of ASIANLAN 216 by Placement Test. (Prerequisites enforced at registration.) (4). (Lang Req). May not be repeated for credit. No credit granted to those who have completed or are enrolled in ASIANLAN 217.

ASIANLAN 221. Second Year Indonesian I

ASIANLAN 122; or by assignment of ASIANLAN 221 by Placement Test. (Prerequisites enforced at registration.) (4). May not be repeated for credit.

ASIANLAN 222. Second Year Indonesian II

ASIANLAN 221 or by assignment of ASIANLAN 222 by Placement Test. (Prerequisites enforced at registration.) (4). (Lang Req). May not be repeated for credit.

ASIANLAN 225. Second Year Japanese I

One of: ASIANLAN 124, 126, 127, or 129 or RCLANG 196; or by assignment of ASIANLAN 225 by placement test. (Prerequisites enforced at registration.) Native or near-native speakers of Japanese are not eligible for this course. (5). May not be repeated for credit. No credit granted to those who have completed or are enrolled in ASIANLAN 227 or 229 or RCLANG 296.

ASIANLAN 226. Second Year Japanese II

ASIANLAN 225; or assignment of ASIANLAN 226 by Placement Test. (Prerequisites enforced at registration.) (5). (Lang Req). May not be repeated for credit. No credit granted to those who have completed or are enrolled in ASIANLAN 227 or 229 or RCLANG 296.

ASIANLAN 229. Intensive Japanese II

Consent of instructor required. ASIANLAN 129 or RCLANG 196. Students must have completed the first-year Japanese at the University of Michigan or have equivalent proficiency. (10). (Lang Req). May not be repeated for credit. No credit granted to those who have completed or are enrolled in ASIANLAN 225, 226, and 227.

ASIANLAN 235. Second Year Korean I

ASIANLAN 136 or 137 or by assignment of ASIANLAN 235 by Placement Test. (Prerequisites enforced at registration.) Native or near-native speakers of Korean are not eligible for this course. (5). May not be repeated for credit. No credit granted to those who have completed or are enrolled in ASIANLAN 237 or 238.

ASIANLAN 236. Second Year Korean II

ASIANLAN 235 or by assignment of ASIANLAN 236 by Placement Test. (Prerequisites enforced at registration.) (5). (Lang Req). May not be repeated for credit. No credit granted to those who have completed or are enrolled in ASIANLAN 237.

ASIANLAN 238. Accelerated Korean II

ASIANLAN 138 or by assignment of ASIANLAN 238 by Placement Test. (Prerequisites enforced at registration.) (5). (Lang Req). May not be repeated for credit. No credit granted to those who have completed or are enrolled in ASIANLAN 235, 236, or 237.

ASIANLAN 245. Second Year Punjabi I

ASIANLAN 146 or by assignment of ASIANLAN 245 by Placement Test. (Prerequisites enforced at registration.) (4). May not be repeated for credit. No credit granted to those who have completed or are enrolled in SSEA 372.

ASIANLAN 246. Second Year Punjabi II

ASIANLAN 245 or by assignment of ASIANLAN 246 by Placement Test. (Prerequisites enforced at registration.) (4). (Lang Req). May not be repeated for credit. No credit granted to those who have completed or are enrolled in SSEA 372.

ASIANLAN 251. Second Year Sanskrit I

ASIANLAN 152. (Prerequisites enforced at registration.) (4). May not be repeated for credit.

ASIANLAN 252. Second Year Sanskrit II

ASIANLAN 251. (Prerequisites enforced at registration.) (4). (Lang Req). May not be repeated for credit.

ASIANLAN 255. Second Year Tamil I

ASIANLAN 156 or 157. (Prerequisites enforced at registration.) (4). May not be repeated for credit. No credit granted to those who have completed or are enrolled in ASIANLAN 257.

ASIANLAN 256. Second Year Tamil II

ASIANLAN 255. (Prerequisites enforced at registration.) (4). (Lang Req). May not be repeated for credit. No credit granted to those who have completed or are enrolled in ASIANLAN 257.

ASIANLAN 261. Second Year Thai I

ASIANLAN 162, or by assignment of ASIANLAN 261 by placement test. (Prerequisites enforced at registration.) (4). May not be repeated for credit.

ASIANLAN 262. Second Year Thai II

ASIANLAN 261 or by assignment of ASIANLAN 262 by Placement Test. (Prerequisites enforced at registration.) (4). (Lang Req). May not be repeated for credit.

ASIANLAN 271. Second Year Urdu I

ASIANLAN 172 or by assignment of ASIANLAN 271 by Placement Test. (Prerequisites enforced at registration.) (4). May not be repeated for credit.

ASIANLAN 272. Second Year Urdu II

ASIANLAN 271 or by assignment of ASIANLAN 272 by Placement Test. (Prerequisites enforced at registration.) (4). (Lang Req). May not be repeated for credit.

ASIANLAN 275. Second Year Vietnamese I

ASIANLAN 176 or by assignment of ASIANLAN 275 by Placement Test. (Prerequisites enforced at registration.) (4). May not be repeated for credit.

ASIANLAN 276. Second Year Vietnamese II

ASIANLAN 275 or by assignment of ASIANLAN 276 by Placement Test. (Prerequisites enforced at registration.) (4). (Lang Req). May not be repeated for credit.

ASIANLAN 285. Second Year Bengali I

ASIANLAN 186 or permission of instructor. (4). May not be repeated for credit.

ASIANLAN 286. Second Year Bengali II

ASIANLAN 285 or permission of instructor. (4). (Lang Req). May not be repeated for credit.

ASIANLAN 301. Third Year Chinese I

(ASIANLAN 202 or 203) or by Assignment of ASIANLAN 301 by Placement Test. (Prerequisites enforced at registration.) (5). May not be repeated for credit. No credit granted to those who have completed or are enrolled in ASIANLAN 303 or 304.

ASIANLAN 302. Third Year Chinese II

ASIANLAN 301 or by Assignment of ASIANLAN 302 by Placement Test. (Prerequisites enforced at registration.) (5). May not be repeated for credit. No credit granted to those who have completed or are enrolled in ASIANLAN 303 or 304.

ASIANLAN 304. Third Year Chinese for Heritage Speakers

ASIANLAN 204 or by Assignment of ASIANLAN 304 by Placement Test. (Prerequisites enforced at registration.) (4). May not be repeated for credit. Taught in Chinese.

ASIANLAN 305. Intermediate Spoken Chinese I

ASIANLAN 202 or 203; or by assignment of ASIANLAN 305 by Placement Test. (Prerequisites enforced at registration.) (2). May be elected twice for credit.

ASIANLAN 306. Intermediate Spoken Chinese II

(ASIANLAN 202 or 203 or 305) or by Assignment of ASIANLAN 306 by Placement Test. (Prerequisites enforced at registration.) (2). May not be repeated for credit. Native or near-native speakers of Mandarin can not earn credit for this course.

ASIANLAN 311. Savoring the Philippines: Exploring Filipino Food and Culture

ASIANLAN 212 or by assignment into Advanced Filipino by Placement Test. (Prerequisites enforced at registration.) (3). May not be repeated for credit.

ASIANLAN 321. Controversies in Indonesia

ASIANLAN 222. (Prerequisites enforced at registration.) (3). May not be repeated for credit.

ASIANLAN 325. Third Year Japanese I

One of: ASIANLAN 226 or 227 or ASIANLAN 229 or RCLANG 296; or by assignment of ASIANLAN 325 by placement test. (Prerequisites enforced at registration.) Native or near-native speakers of Japanese are not eligible for this course. (4). May not be repeated for credit. No credit granted to those who have completed or are enrolled in ASIANLAN 327.

ASIANLAN 326. Third Year Japanese II

ASIANLAN 325 or by Assignment of ASIANLAN 326 by Placement Test. (Prerequisites enforced at registration.) (4). May not be repeated for credit. No credit granted to those who have completed or are enrolled in ASIANLAN 327 (or JAPANESE 411).

ASIANLAN 335. Third Year Korean I

ASIANLAN 236, 238 or 237; or Equivalent language proficiency from the most recent Korean Placement Test. (Prerequisites enforced at registration.) Native or near-native speakers of Korean are not eligible for this course. (4). May not be repeated for credit.

ASIANLAN 336. Third Year Korean II

ASIANLAN 335 or by assignment of ASIANLAN 336 by Placement Test. (Prerequisites enforced at registration.) (4). May not be repeated for credit. Students with previous experience with Korean should contact the instructor for placement into the course.

ASIANLAN 361. Thai Soft Power

ASIANLAN 262. (Prerequisites enforced at registration.) (3). May not be repeated for credit.

ASIANLAN 375. Vietnamese Community with Media

ASIANLAN 276. (Prerequisites enforced at registration.) (3). May not be repeated for credit.

ASIANLAN 403. Introduction to Chinese Linguistics

Consent of instructor required. 4th year proficiency in Chinese. (3). May not be repeated for credit.

ASIANLAN 405. Business Chinese I

ASIANLAN 302, ASIANLAN 304; or by assignment of a 400-level Chinese course by Placement Test. (Prerequisites enforced at registration.) Third year proficiency in Chinese or permission of instructor. (3). May not be repeated for credit. Rackham credit requires additional work.

ASIANLAN 406. Business Chinese II

ASIANLAN 302, ASIANLAN 304, or by assignment of ASIANLAN 406 by Placement Test, or by permission of instructor. (Prerequisites enforced at registration.) (3). May not be repeated for credit. Conducted in Chinese.

ASIANLAN 407. Advanced Chinese Reading and Writing I

ASIANLAN 302 or 304. (Prerequisites enforced at registration.) (3). May not be repeated for credit.

ASIANLAN 408. Advanced Reading and Writing Chinese II

ASIANLAN 302 or ASIANLAN 304. (Prerequisites enforced at registration.) Not intended for native speakers of Chinese. (3). May not be repeated for credit.

ASIANLAN 409. Classical Chinese in Modern Context

ASIANLAN 302 or 304. (3). May not be repeated for credit. Conducted in Chinese.

ASIANLAN 410. Media Chinese: News and Current Affairs

(ASIANLAN 302 or 304) or by Assignment of ASIANLAN 410 by Placement Exam. (Prerequisites enforced at registration.) (3). May not be repeated for credit.

ASIANLAN 411. Advanced Filipino I

ASIANLAN 212, or by assignment of ASIANLAN 411 by placement test. (Prerequisites enforced at registration.) (3). May be elected twice for credit. Rackham credit requires additional work.

ASIANLAN 412. Advanced Filipino II

ASIANLAN 411 or by assignment of ASIANLAN 412 by Placement Test. (Prerequisites enforced at registration.) (3). May be elected twice for credit. Rackham credit requires additional work.

ASIANLAN 413. Media Chinese: Movies and Television

ASIANLAN 302 or 304. (Prerequisites enforced at registration.) (3). May not be repeated for credit.

ASIANLAN 417. Advanced Hindi I

ASIANLAN 216 or 217 or by assignment of ASIANLAN 417 by Placement. (Prerequisites enforced at registration.) (3). May be elected twice for credit. Rackham credit requires additional work.

ASIANLAN 418. Advanced Hindi II

ASIANLAN 417 or by assignment of ASIANLAN 418 by Placement Test. (Prerequisites enforced at registration.) (3). May be elected twice for credit. Rackham credit requires additional work.

ASIANLAN 419. Advanced Indonesian I

ASIANLAN 222, or by assignment of ASIANLAN 419 by placement test. (Prerequisites enforced at registration.) (3). May be elected twice for credit. Rackham credit requires additional work.

ASIANLAN 420. Advanced Indonesian II

ASIANLAN 419 or by assignment of ASIANLAN 420 by Placement Test. (Prerequisites enforced at registration.) (3). May be elected twice for credit. Rackham credit requires additional work.

ASIANLAN 425. Media Japanese I

ASIANLAN 326 or 327. (Prerequisites enforced at registration.) ASIANLAN 326 with B- or above or pass a placement test. (3). May not be repeated for credit.

ASIANLAN 426. Advanced Spoken Japanese

ASIANLAN 326. (Prerequisites enforced at registration.) (2). May not be repeated for credit.

ASIANLAN 429. Business Japanese I

ASIANLAN 326 or 327. (Prerequisites enforced at registration.) ASIANLAN 326 with B- or above or pass a placement test. (3). May not be repeated for credit. Rackham credit requires additional work.

ASIANLAN 430. Business Japanese II

ASIANLAN 326. (Prerequisites enforced at registration.) ASIANLAN 429, one previous 400-level Japanese language course, or permission of instructor. (3). May not be repeated for credit. Rackham credit requires additional work.

ASIANLAN 433. Classical Japanese I

ASIANLAN 226 or 227. (Prerequisites enforced at registration.) (4). May not be repeated for credit.

ASIANLAN 436. Advanced Spoken Korean

ASIANLAN 336. (Prerequisites enforced at registration.) (2). May not be repeated for credit.

ASIANLAN 438. Media Korean

ASIANLAN 336 or permission of instructor. Consent of instructor required. (Prerequisites enforced at registration.) Minimum of Third-Year proficiency in Korean. (3). May not be repeated for credit.

ASIANLAN 439. Academic Japanese I

Consent of instructor required. ASIANLAN 326 with A- or above or pass a placement test. Students must also have mastery of over 1500 kanji and a solid foundation in grammar and reading. (2). May not be repeated for credit. Rackham credit requires additional work.

ASIANLAN 441. Practicum in Japanese Translation (Hon'yaku jisshu)

ASIANLAN 326 completed with a minimum grade of B+ or better. (Prerequisites enforced at registration.) ASIANLAN 326 with a minimum grade of B+ or permission of instructor. For non-native speakers of Japanese: JLPT N2, Placement test, and/or knowledge of 800 kanji. For non-native speakers of English: TOEFL IBT 100 or above. (3). May be elected twice for credit.

ASIANLAN 442. Practicum in Japanese Interpreting

Consent of instructor required. ASIANLAN 326 required. ASIANLAN 441 or another 400-level Japanese language course. This course is for students with a high level of Japanese proficiency. (3). May not be repeated for credit.

ASIANLAN 445. Chinese Language Pedagogy

Consent of instructor required. 4th year proficiency in Chinese. (2). May not be repeated for credit.

ASIANLAN 446. Chinese for Professionals

ASIANLAN 302 or ASIANLAN 304; placement into 400 level via test. (Prerequisites enforced at registration.) (3). May not be repeated for credit.

ASIANLAN 451. Advanced Sanskrit

Consent of instructor required. ASIANLAN 252 or equivalent, or permission of instructor. (3). May be elected twice for credit.

ASIANLAN 455. Advanced Tamil I

ASIANLAN 256 or 257. (Prerequisites enforced at registration.) (3). May be elected twice for credit. Rackham credit requires additional work.

ASIANLAN 456. Advanced Tamil II

ASIANLAN 455. (Prerequisites enforced at registration.) (3). May be elected twice for credit. Rackham credit requires additional work.

ASIANLAN 461. Advanced Thai I

ASIANLAN 262, or by assignment of ASIANLAN 461 by placement test. (Prerequisites enforced at registration.) (3). May be elected twice for credit. Rackham credit requires additional work.

ASIANLAN 462. Advanced Thai II

ASIANLAN 461 or by assignment of ASIANLAN 462 by Placement Test. (Prerequisites enforced at registration.) (3). May be elected twice for credit. Rackham credit requires additional work.

ASIANLAN 471. Advanced Urdu I

ASIANLAN 272 or by assignment of ASIANLAN 471 by Placement Test. (Prerequisites enforced at registration.) (3). May be elected twice for credit. Rackham credit requires additional work.

ASIANLAN 472. Advanced Urdu II

ASIANLAN 471 or by assignment of ASIANLAN 472 by Placement Test. (Prerequisites enforced at registration.) (3). May be elected twice for credit. Rackham credit requires additional work.

ASIANLAN 475. Advanced Vietnamese I

ASIANLAN 276 or by assignment of ASIANLAN 475 by Placement Test. (Prerequisites enforced at registration.) (3). May be elected twice for credit. Rackham credit requires additional work.

ASIANLAN 476. Advanced Vietnamese II

ASIANLAN 475, or by assignment of ASIANLAN 476 by placement test. (Prerequisites enforced at registration.) (3). May be elected twice for credit. Rackham credit requires additional work.

ASIANLAN 479. Teaching Korean in the Community

ASIANLAN 336 or advanced Korean language proficiency. (2). (EXPERIENTIAL). May be elected twice for credit. Offered mandatory credit/no credit.

ASIANLAN 480. Topics in Asian Languages

Students should not elect the same topic twice. (1 - 4). May be elected three times for credit. May be elected more than once in the same term.

ASIANLAN 485. Advanced Bengali I

ASIANLAN 286. (3). May be elected twice for credit. Rackham credit requires additional work.

ASIANLAN 486. Advanced Bengali II

(3). May be elected twice for credit. Rackham credit requires additional work.

ASIANLAN 499. Independent Language Study

Permission of Instructor. (1 - 5). (INDEPENDENT). May be repeated for a maximum of 8 credits. May be elected more than once in the same term.

LSA Astronomy**Courses In Astronomy (ASTRO)****ASTRO 101. Introductory Astronomy: The Solar System and the Search for a new Earth**

A basic high school math and science background. (4). (NS). (BS). (QR/2). May not be repeated for credit. No credit granted to those who have completed or are enrolled in ASTRO 115. F, W.

ASTRO 102. Introductory Astronomy: Stars, Galaxies, and the Universe

A basic high school math and science background. (4). (NS). (BS). (QR/2). May not be repeated for credit. No credit granted to those enrolled in or have completed ASTRO 104, ASTRO 142, or ASTRO 201. F, W.

ASTRO 104. Alien Skies: A Tour Through the Universe

(3). (NS). (BS). (QR/2). May not be repeated for credit. No credit granted to those enrolled in or have completed ASTRO 102, 142, or 201.

ASTRO 105. The Cosmos Through the Constellations

(3). (NS). (BS). (QR/2). May not be repeated for credit.

ASTRO 106. Aliens

(1). (NS). (BS). May not be repeated for credit. No credit granted to those who have completed or are enrolled in ASTRO 115.

ASTRO 107. The Dark Side of the Universe

(1). (NS). (BS). May not be repeated for credit. No credit granted to those who have completed or are enrolled in ASTRO 102, 104, 142, or 201.

ASTRO 115. Introductory Astrobiology: The Search for Life in the Universe

Basic high school math and science background. (3). (NS). (BS). (QR/2). May not be repeated for credit. No credit granted to those who have completed or are enrolled in ASTRO 101.

ASTRO 127. Naked Eye Astronomy

(1). (NS). (BS). May not be repeated for credit. No credit granted to those who have completed or are enrolled in ASTRO 105.

ASTRO 142. From the Big Bang to the Milky Way

(3). (NS). (BS). (QR/2). May not be repeated for credit. No credit granted to those who have completed or are enrolled in: ASTRO 102, 104, or 201; or PHYSICS 112.

ASTRO 182. Interdisciplinary Topics in Astronomy

(3 - 4; 2 - 3 in the half-term). (ID). May be elected three times for credit. May be elected more than once in the same term.

ASTRO 183 / SPACE 103. Introduction to Space Weather

(3). (NS). (BS). May not be repeated for credit.

ASTRO 201. Introduction to Astrophysics

Calculus and physics at the high school or university level is strongly recommended. Students should expect a level of math equivalent to MATH 115 (Calculus I). (4). (NS). (BS). (QR/1). May not be repeated for credit.

ASTRO 206. Black Holes: The Triumph of Gravity

Any one of: PHYSICS 135, 139, 140 or 160. (Prerequisites enforced at registration.) 3 credits of any Astronomy course, with the exception of ASTRO 183 and ASTRO 261. (3). (NS). (BS). (QR/1). May not be repeated for credit.

ASTRO 220. New Discoveries in Astronomy

Any one of: PHYSICS 112, ASTRO 101, 102, 104, 105, 115, 142, or 201. (Prerequisites enforced at registration.) (3). (NS). (BS). (QR/2). May be repeated for a maximum of 6 credits. Credit granted for a combined total of 6 credits in ASTRO 220 and ASTRO 420.

ASTRO 255 / EARTH 255. Introduction to Astronomy, Geology, and Climate Science

High school mathematics and physics recommended. (3). (NS). (BS). May not be repeated for credit. No credit granted to those who have completed or are enrolled in ASTRO 101 or 115, or EARTH 171(or GEOSCI 171) or AOSS 171 or BIOLOGY 110 or ENSCEN 171 or ENVIRON 110.

ASTRO 261 / NAVSCI 301. Navigation

(3). (BS). May not be repeated for credit. F.

ASTRO 361. Astronomical Techniques

ASTRO 201 and one of COMPFOR 131, PHYSICS 104, SI 106, EECS 183, PHYSICS 160/161, or an equivalent python programming experience approved by the Astronomy department advisor. (4). (BS). May not be repeated for credit. F.

ASTRO 389. Individual Studies in Astronomy

Consent of instructor required. (1 - 3). (INDEPENDENT). May be repeated for credit.

ASTRO 399. Introduction to Research

Consent of instructor required. (1 - 3). (BS). (INDEPENDENT). May be repeated for credit. Continuing Course. Y grade can be reported at end of the first-term to indicate work in progress. At the end of the second term, the final grade is posted for both term's elections.

ASTRO 401. Exoplanets

MATH 215, 255 or 285, and prior or concurrent enrollment in PHYSICS 340 or PHYSICS 360, or graduate standing. (Prerequisites enforced at registration.) MATH 216, 256 or 286 and ASTRO 201. (3). (BS). May not be repeated for credit. W.

ASTRO 402. Stellar Astrophysics

MATH 215, 255 or 285, and prior or concurrent enrollment in PHYSICS 340 or PHYSICS 360, or graduate standing. (Prerequisites enforced at registration.) MATH 216, 256 or 286 and ASTRO 201. (3). (BS). May not be repeated for credit. F.

ASTRO 404. Galaxies and the Universe

MATH 215, 255 or 285, and prior or concurrent enrollment in PHYSICS 340 or PHYSICS 360, or graduate standing. (Prerequisites enforced at registration.) MATH 216, 256 or 286 and ASTRO 102, 142 or 201. (3). (BS). May not be repeated for credit. W.

ASTRO 405. High Energy Astrophysics

MATH 216, 256 or 286, ASTRO 201, PHYSICS 340 or 360, and prior or concurrent enrollment in PHYSICS 390. (3). (BS). May not be repeated for credit. W.

ASTRO 406. Computational Astrophysics

Prior or concurrent enrollment in MATH 216, 256 or 286, prior or concurrent enrollment in PHYSICS 235, 240 or 260, and some knowledge of programming. (3). (BS). May not be repeated for credit. F.

ASTRO 420. New Discoveries in Astronomy for Advanced Students

ASTRO 201, and one of: PHYSICS 140, 160, or 123. (Prerequisites enforced at registration.) (3). (BS). (QR/2). May be repeated for a maximum of 6 credits. Credit granted for a combined total of 6 credits in ASTRO 220 and ASTRO 420.

ASTRO 429. Scientific Writing and Communication in Astronomy

ASTRO 201 or graduate standing. (Prerequisites enforced at registration.) (3). (BS). May not be repeated for credit. W.

ASTRO 461. Ground-Based Observatories

Consent of department required. ASTRO 201 and ASTRO 361. (3 in the half-term). (BS). May not be repeated for credit. Sp. (Kitt Peak National Observatory, Arizona).

LSA Biology

Courses In Biology (BIOLOGY)

BIOLOGY 101 / ENVIRON 101. Food, Energy, and Environmental Justice

(4). (NS). (BS). May not be repeated for credit. F.

BIOLOGY 102. Practical Botany

(4). (NS). (BS). May not be repeated for credit. W.

BIOLOGY 105. Biology of Nutrition

(4). (NS). (BS). May not be repeated for credit. Credit is granted for a combined total of 17 credits elected in introductory biology. F.

BIOLOGY 107. Evolution of Life

Some exposure to biology at the high school level is assumed. (3). (NS). (BS). May not be repeated for credit.

BIOLOGY 108. Introduction to Animal Diversity

(4). (NS). (BS). May not be repeated for credit. W.

BIOLOGY 109. Ecological Knowledge and Environmental Problem Solving

(3). (NS). (BS). May not be repeated for credit. W.

BIOLOGY 110 / CLIMATE 171 / EARTH 171 / ENVIRON 110 / RCNSCI 110. Introduction to Global Change: The Science Behind Sustainability

(4). (NS). (BS). May not be repeated for credit. Satisfies the geography requirement for State of Michigan certification for social studies teachers. F.

BIOLOGY 112. The Evolutionary Influence of Humans

(1). (NS). (BS). May not be repeated for credit.

BIOLOGY 116. Biology of Sex

(3). (NS). (BS). May not be repeated for credit.

BIOLOGY 117. Metacognitive Learning Strategies: The Science of Study

Concurrent enrollment in an introductory Biology course. (1). May not be repeated for credit. Offered mandatory credit/no credit.

BIOLOGY 118. Plagues, People, and Policies

(3). (NS). (BS). May not be repeated for credit. W.

BIOLOGY 120. First Year Seminar in Biology

Enrollment restricted to first-year students, including those with sophomore standing. (3). (NS). (BS). May not be repeated for credit.

BIOLOGY 121. Topics in Biology

(1 - 4). (NS). (BS). May be elected four times for credit. May be elected more than once in the same term.

BIOLOGY 130. Animal Behavior

(4). (NS). (BS). May not be repeated for credit. F.

BIOLOGY 131 / COMPFOR 131. Python Programming for the Sciences

(3). (MSA). (BS). (QR/1). May not be repeated for credit.

BIOLOGY 144. Decoding Your DNA: Implications for You and Society

(1). (NS). (BS). May not be repeated for credit.

BIOLOGY 171. Introductory Biology: Ecology and Evolution

(4). (NS). (BS). May not be repeated for credit. BIOLOGY 171 and 172 can be taken in either order.

BIOLOGY 172. Introductory Biology - Molecular, Cellular, and Developmental

Prior or concurrent enrollment in CHEM 130. (4). (NS). (BS). May not be repeated for credit. No credit granted to those who have completed or are enrolled in BIOLOGY 174. BIOLOGY 171 and 172 can be taken in either order.

BIOLOGY 173. Introductory Biology Laboratory

One of: BIOLOGY 171, 172, 174, 191, or 195. (Prerequisites enforced at registration.) Students should have completed one of the introductory lecture courses [either BIOLOGY 171 or (172 or 174)] and be concurrently enrolled in the other. (2). (NS). (BS). May not be repeated for credit.

BIOLOGY 174. Introduction to Cell and Molecular Biology

Prior or concurrent enrollment in CHEM 130. (4). (NS). (BS). May not be repeated for credit. No credit granted to those who have completed or are enrolled in BIOLOGY 172.

BIOLOGY 192. Accelerated Introductory Biology

BIOLOGY 191 (Transfer) or BIOLOGY 195 (AP). (Prerequisites enforced at registration.) (4). (NS). (BS). May not be repeated for credit. No credit granted to those who have completed or are enrolled in BIOLOGY 171, 172, or 174.

BIOLOGY 197. Science Writing for Everyday Life

(4). (FYWR). (BS). May not be repeated for credit.

BIOLOGY 200. Undergraduate Tutorial

Consent of instructor required. Permission of faculty member in biology. (1 - 3). (BS). (INDEPENDENT). May be repeated for a maximum of 6 credits. F, W, Sp/Su, Sp, Su.

BIOLOGY 202. Biological Data Analysis and Programming

BIOLOGY 171, 172, 173, 191, or 195. (Prerequisites enforced at registration.) (4). (BS). May not be repeated for credit.

BIOLOGY 205. Developmental Biology

BIOLOGY 171 and either 172 or 174; or BIOLOGY 192; or BIOLOGY 195. (Prerequisites enforced at registration.) (4). (BS). May not be repeated for credit.

BIOLOGY 207. Microbiology

BIOLOGY 171, (172 or 174), & 173; BIOLOGY 192 & 173; or BIOLOGY 195 & 173. (Prerequisites enforced at registration.) (4). (NS). (BS). May not be repeated for credit. Satisfies a Biology laboratory requirement. F and W.

BIOLOGY 212. Plants and Human Health

BIOLOGY 171 and either 172 or 174; or BIOLOGY 192; or BIOLOGY 195. (Prerequisites enforced at registration.) (3). (NS). (BS). May not be repeated for credit.

BIOLOGY 225. Principles of Human and Animal Physiology

BIOLOGY 171 and either 172 or 174; or BIOLOGY 192; or BIOLOGY 195. (Prerequisites enforced at registration.) Prior or concurrent enrollment in CHEM 210. (3). (NS). (BS). May not be repeated for credit. F and W.

BIOLOGY 226. Human and Animal Physiology Laboratory

BIOLOGY 173. (Prerequisites enforced at registration.) Prior or concurrent enrollment in BIOLOGY 225. (2). (NS). (BS). May not be repeated

for credit. Satisfies a Biology laboratory requirement or an elective requirement in most biology majors and minors. F, W.

BIOLOGY 230. Introduction to Plant Biology

BIOLOGY 171, (172 or 174), & 173; or BIOLOGY 192 & 173; or BIOLOGY 195 & 173. (4; 5 in the half-term). (NS). (BS). May not be repeated for credit. F; Sp/Su at the Biological Station. Satisfies a Biology laboratory requirement.

BIOLOGY 252. Vertebrate Evolution and Diversity

BIOLOGY 171, (172 or 174), & 173; or BIOLOGY 192 & 173; or BIOLOGY 195 & 173. (4). (BS). May not be repeated for credit. Satisfies a Biology laboratory requirement. F.

BIOLOGY 256. Environmental Physiology of Animals

BIOLOGY 171, 172 or 174, & 173; or BIOLOGY 192 & 173; or BIOLOGY 195 & 173. (Prerequisites enforced at registration.) AP Physics or PHYSICS 135, 140 or 160 or equivalent; and AP Math or MATH 115 or 116 or equivalent. (3). (NS). (BS). May not be repeated for credit.

BIOLOGY 272. Fundamentals of Cell Biology

BIOLOGY 171 and BIOLOGY 172 (OR 174) OR BIOLOGY 192 OR BIOLOGY 195; and CHEM 130 or CHEM 210 (or placement in CHEM 210 by orientation exam). (Prerequisites enforced at registration.) (4). (NS). (BS). May not be repeated for credit.

BIOLOGY 281 / ENVIRON 281. General Ecology

BIOLOGY 171, (172 or 174), & 173; or BIOLOGY 192 & 173; or BIOLOGY 195 & 173; AND a laboratory course in CHEM. (3). (NS). (BS). May not be repeated for credit. No credit granted to those who have completed or are enrolled in EEB 381 or ENVIRON 381. F and W.

BIOLOGY 282 / ENVIRON 282. General Ecology (UMBS)

BIOLOGY 171, (172 or 174) & 173; or BIOLOGY 195 & 173; AND a laboratory course in CHEM. (3 in the half-term). (BS). May not be repeated for credit. No credit granted to students who have completed or are enrolled in BIOLOGY/ENVIRON 281.

BIOLOGY 288. Animal Diversity

BIOLOGY 171, (172 or 174), & 173; or BIOLOGY 192 & 173; or BIOLOGY 195 & 173. (4). (NS). (BS). May not be repeated for credit. Satisfies a Biology laboratory requirement.

BIOLOGY 299. Undergraduate Research in Biology, Health, and Society

Consent of instructor required. Eight or more credits of BIOLOGY courses; 3.0 or greater GPA. (1 - 3). (INDEPENDENT). May be repeated for a maximum of 12 credits.

BIOLOGY 305. Genetics

BIOLOGY 171 and either 172 or 174; or BIOLOGY 192; or BIOLOGY 195. (Prerequisites enforced at registration.) Prior or concurrent enrollment in CHEM 210. (4). (BS). May not be repeated for credit. F, W, Sp.

BIOLOGY 312. Preparing for Graduate School in Biology

Upper-level Program in Biology major and plans to pursue graduate school in the biological sciences. (1). May not be repeated for credit. Offered mandatory credit/no credit.

BIOLOGY 525 / CHEM 525. Chemical Biology I

CHEM 451, 452, 461, and 463. (3). (BS). May not be repeated for credit.

BIOLOGY 526 / CHEM 526. Chemical Biology II

BIOLOGY 525 or CHEM 525. Prior or concurrent enrollment in CHEM 402 or equivalent. (3). (BS). May not be repeated for credit. W.

LSA Biophysics

Courses In Biophysics (BIOPHYS)

BIOPHYS 116. Introduction to Medical Imaging

Enrollment restricted to first-year students, including those with sophomore standing. (3). (NS). (BS). May not be repeated for credit.

BIOPHYS 117. Introduction to Programming in the Sciences

(3). (MSA). (BS). (QR/1). May not be repeated for credit. No credit granted to those who have completed or are enrolled in COMPFOR 131.

BIOPHYS 150 / PHYSICS 150. Fundamental Physics for the Life Sciences I

MATH 115, 120, 185, or 295; knowledge of differential and integral calculus minimally at the level of MATH 115, or its high school equivalent, will be needed. Students should elect PHYSICS 151 concurrently. (4). (NS). (BS). (QR/1). May not be repeated for credit. No credit granted to those who have completed or are enrolled in PHYSICS 135, 140, or 160.

BIOPHYS 151 / PHYSICS 151. Physics for the Life Sciences Laboratory I

Concurrent election with BIOPHYS/PHYSICS 150 is strongly recommended. (1). (NS). (BS). May not be repeated for credit. No credit granted to those who have completed or are enrolled in PHYSICS 136, 141, or 161.

BIOPHYS 250 / PHYSICS 250. Fundamental Physics for the Life Sciences II

PHYSICS 135 or BIOPHYS/PHYSICS 150. MATH 115, 120, 185, or 295; knowledge of differential and integral calculus minimally at the level of MATH 115, or its high school equivalent, will be needed. Students should elect BIOPHYS/PHYSICS 251 concurrently. (4). (NS). (BS). (QR/1). May not be repeated for credit. No credit granted to those who have completed or are enrolled in PHYSICS 235, 240, or 260.

BIOPHYS 251 / PHYSICS 251. Physics for the Life Sciences Laboratory II

Concurrent election with BIOPHYS/PHYSICS 250 is strongly recommended. (1). (NS). (BS). May not be repeated for credit. No credit granted to those who have completed or are enrolled in PHYSICS 236, 241, or 261.

BIOPHYS 290 / PHYSICS 290. Physics of the Body and Mind

Students should have knowledge of basic calculus and physics as covered in courses such as: PHYSICS 125 or 135 or 140 or 150 or 160 or BIOPHYS 150. (3). (NS). (BS). (QR/2). May not be repeated for credit.

BIOLOGY 370 / CHEM 370 / PHYSICS 370. Physical and Chemical Principles Behind Biology and Medicine

Students should have knowledge of basic physical chemistry, multivariable or applied calculus and mid-level physics as covered in, for ex: MATH 215 or CHEM 262; CHEM 130 or 210 or PHYSICS 235, 239 or 240. (3). (NS). (BS). May not be repeated for credit. No credit granted to students who have completed or are enrolled in CHEM 260.

BIOPHYS 399. Research in Biophysics

(1 - 4). (BS). (INDEPENDENT). May be repeated for a maximum of 8 credits.

BIOPHYS 415. Directed Study

(1 - 4). (BS). (INDEPENDENT). May be elected twice for credit. May be elected more than once in the same term.

BIOPHYS 417 / CHEM 417 / PHYSICS 417. Dynamical Processes in Biophysics

Students should have knowledge of intermediate physical chemistry, intermediate/applied calculus (single and multivariable) and intermediate linear algebra (differential equations) as covered in, for ex: BIOPHYS 370 and MATH 216 or 256 or 286 or 316. (3). (BS). May not be repeated for credit.

BIOPHYS 420 / MCDB 420. Structural Biology: The Architecture of Life

Students should have knowledge of physical chemistry and biochemistry, as covered in the curricula of: CHEM 230 or CHEM 260 or BIOPHYS 370; CHEM 351, MCDB 310 or BIOLCHEM 415. (3). (BS). May not be repeated for credit.

BIOPHYS 421. Structural Biology: Biophysical Controversies

Previous or concurrent enrollment in CHEM 351, MCDB 310, or BIOLCHEM 415. (3). (BS). May not be repeated for credit.

BIOPHYS 430 / PHYSICS 430. Medical Physics

Students should have knowledge of physical chemistry as covered in courses such as: CHEM 230, CHEM 260 or BIOPHYS/CHEM/PHYSICS 370, or PHYSICS 390/391. (3). (BS). May not be repeated for credit.

BIOPHYS 433 / PHYSICS 433. Biocomplexity

Students should have knowledge of basic and applied calculus (single and multi-variable). Familiarity with basic linear algebra is helpful but not required. Knowledge covered in courses such as: BIOPHYS 417 or CHEM 417 or PHYSICS 417, or PHYSICS 406. (3). (BS). May not be repeated for credit. Rackham credit requires additional work.

BIOPHYS 440 / CHEM 440. Biophysics of Diseases

Students should have knowledge of physical chemistry as covered in courses such as: CHEM 230, CHEM 260 or BIOPHYS/CHEM/PHYSICS 370, or PHYSICS 390/391. (3). (BS). May not be repeated for credit.

BIOPHYS 445 / CMLXSYS 445 / MATH 445 / PHYSICS 445. Entropy and Information: Concepts and Applications

MATH 215 (Multivariable and Vector Calculus). (Prerequisites enforced at registration.) MATH 425/STATS 425. (3). (BS). May not be repeated for credit.

BIOPHYS 450 / PHYSICS 450. Laboratory Techniques in Biophysics

Students should have knowledge of physical chemistry and biochemistry, as covered in the curricula of: CHEM 230 or CHEM 260 or BIOPHYS 370; CHEM 351, MCDB 310 or BIOLCHEM 415. (3). (BS). May not be repeated for credit. Rackham credit requires additional work.

BIOPHYS 463 / BIOINF 463 / MATH 463. Mathematical Modeling in Biology

MATH 214, 217, 417, or 419; and MATH 216, 256, 286, or 316. (3). (BS). May not be repeated for credit.

BIOPHYS 495. Senior Seminar in Biophysics

Students should take this course in their senior year, preferably after having exposure to other 400-level Biophysics courses. (3). (BS). May not be repeated for credit. Rackham credit requires additional work.

BIOPHYS 498. Senior Thesis

BIOPHYS 399. (1 - 4). (BS). (INDEPENDENT). May not be repeated for credit.

BIOPHYS 499. Honors Thesis

BIOPHYS 399. (1 - 4). (BS). (INDEPENDENT). May not be repeated for credit.

BIOPHYS 520 / CHEM 520. Methods of Biophysical Chemistry

CHEM 463, BIOLCHEM 415, or CHEM 420; permission of course director. (3). (BS). May not be repeated for credit. F.

BIOPHYS 521 / CHEM 521. Principles of Biophysical Chemistry

Consent of department required. CHEM 262 or MATH 215 or equivalent. (3). (BS). May not be repeated for credit. W.

LSA Chemistry**Courses In Chemistry (CHEM)****CHEM 105 / CLIMATE 105 / ENSCEN 105 / ENVIRON 105 / STS 105. Our Changing Atmosphere**

(3). (NS). (BS). May not be repeated for credit.

CHEM 108 / EARTH 130 / PHYSICS 119. The Physical World

High-school algebra. (4). (NS). (BS). (QR/2). May not be repeated for credit.

CHEM 110 / EARTH 178 / ENVIRON 109. Science and Sustainable Development

(3). (NS). May not be repeated for credit.

CHEM 125. General Chemistry Laboratory I

Concurrent enrollment in CHEM 126. (Prerequisites enforced at registration.) To be elected by students who are eligible for (or enrolled in) CHEM 130, and concurrent enrollment in CHEM 126. (1). (NS). (BS). May not be repeated for credit. F, W, Su.

CHEM 126. General Chemistry Laboratory II

Concurrent enrollment in CHEM 125. (Prerequisites enforced at registration.) To be elected by students who are eligible for (or enrolled in) CHEM 130, and concurrent enrollment in CHEM 125. (1). (NS). (BS). May not be repeated for credit. F, W, Su.

CHEM 130. General Chemistry: Macroscopic Investigations and Reaction Principles

Three years of high school math or MATH 105; one year of high school chemistry recommended. Placement by testing, or permission of Chemistry department. (3). (NS). (BS). (QR/2). May not be repeated for credit. Intended for students without AP credit in Chemistry. Neither CHEM 130, nor AP credits earned for CHEM 130, count toward the minors in Chemistry. F, W, Su.

CHEM 209. Structure and Reactivity Seminar

CHEM 210 enforced co enrollment and permission by department. Consent of department required. (Prerequisites enforced at registration.) (1). (NS). (BS). May not be repeated for credit. Offered mandatory credit/no credit.

CHEM 210. Structure and Reactivity I

High school chemistry. Placement by examination during Orientation. To be taken with CHEM 211. (3). (NS). (BS). May not be repeated for credit. No credit granted to those who have completed or are enrolled in CHEM 215. F, W, Su.

CHEM 211. Investigations in Chemistry

To be taken concurrently with CHEM 210. (2). (NS). (BS). May not be repeated for credit. No credit granted to those who have completed or are enrolled in CHEM 216.

CHEM 214. Structure and Reactivity II Seminar

Consent of department required. Must be taken concurrently with CHEM 215. (1). (NS). (BS). May not be repeated for credit. Offered mandatory credit/no credit.

CHEM 215. Structure and Reactivity II

CHEM 210/211. To be taken with CHEM 216. (3). (NS). (BS). May not be repeated for credit. F, W, Sp.

CHEM 216. Synthesis and Characterization of Organic Compounds

CHEM 210/211. Must be taken with CHEM 215. (2). (NS). (BS). May not be repeated for credit. F, W, Sp.

CHEM 218. Independent Study in Biochemistry

Consent of instructor required. For students with less than junior standing. (1). (INDEPENDENT). May be repeated for a maximum of 4 credits. F, W, Sp/Su, Sp, Su.

CHEM 219. Independent Study in Chemistry

Consent of instructor required. For students with less than junior standing. (1). (INDEPENDENT). May be repeated for a maximum of 4 credits. F, W, Sp/Su, Sp, Su.

CHEM 220. Teaching Experience for Undergraduates

Consent of instructor required. (1 - 3). (INDEPENDENT). May be repeated for a maximum of 4 credits.

CHEM 230. Physical Chemical Principles and Applications

CHEM 215/216. Students who plan to continue beyond a fourth term in Chemistry would typically enroll in CHEM 260/241/242 instead of CHEM 230; credit will not be given for both of these courses. (3). (NS). (BS). May not be repeated for credit. No credit granted to those who have completed or are enrolled in CHEM 260. F, W, Sp.

CHEM 241. Introduction to Chemical Analysis

CHEM 130. (2). (NS). (BS). May not be repeated for credit. No credit granted to those who have completed or are enrolled in CHEM 245.

CHEM 242. Introduction to Chemical Analysis Laboratory

CHEM 130 and prior or concurrent enrollment in CHEM 241. (2). (NS). (BS). May not be repeated for credit. No credit granted to those who have completed or are enrolled in CHEM 246 or CHEM 247. F, W.

CHEM 245. Biomedical Analytical Chemistry

CHEM 130 or equivalent. CHEM 245 must be taken concurrently with the accompanying lecture/laboratory offerings, CHEM 246/247. (2). (NS). (BS). May not be repeated for credit. No credit granted to those who have completed or are enrolled in CHEM 241.

CHEM 246. Biomedical Analytical Chemistry Laboratory I

Co-requisite: CHEM 247. (Prerequisites enforced at registration.) CHEM 130 or equivalent. CHEM 246 (LEC/LAB) must be taken concurrently with CHEM 245 and CHEM 247. (1). (NS). (BS). May not be repeated for credit. No credit granted to those who have completed or are enrolled in CHEM 242.

CHEM 247. Biomedical Analytical Chemistry Laboratory II

Co-requisite: CHEM 246. (Prerequisites enforced at registration.) CHEM 130 or equivalent. CHEM 247 must be taken together with CHEM 245 and CHEM 246. (1). (NS). (BS). May not be repeated for credit. No credit granted to those who have completed or are enrolled in CHEM 242.

CHEM 260. Chemical Principles

CHEM 210/211, MATH 115, and prior or concurrent enrollment in PHYSICS 140 or 150 or 160. (3). (NS). (BS). May not be repeated for credit. No credit granted for students who have completed or are enrolled in BIOPHYS 370.

CHEM 261. Introduction to Quantum Chemistry

CHEM 215/216, MATH 115, and prior or concurrent enrollment in PHYSICS 140 (or 160). CHEM 261 is intended primarily for Chemical Engineering students. (1). (BS). May not be repeated for credit. No credit granted to those who have completed or are enrolled in CHEM 260. CHEM 261 is intended for Chemical Engineering students only. F, W, Sp.

CHEM 262. Mathematical Methods for Physical Scientists

MATH 115 and 116. (4). (MSA). (BS). (QR/1). May not be repeated for credit.

CHEM 302. Inorganic Chemistry: Molecules, Materials and Applications in Energy

CHEM 210/211 or 215/216. (3). (NS). (BS). May not be repeated for credit. A student can receive credit for only one of CHEM 302 or CHEM 303. F, W.

CHEM 303. Introductory Bioinorganic Chemistry: The Role of Metals in Life

CHEM 210/211 or 215/216. (3). (NS). (BS). May not be repeated for credit. A student can receive credit for only one of CHEM 302 or CHEM 303.

CHEM 351. Fundamentals of Biochemistry

Completion of BIOLOGY 172 or equivalent; CHEM 210 and completion or concurrent in CHEM 215. (4). (NS). (BS). May not be repeated for credit. No credit granted to those who have completed or are enrolled in MCDB 310 or BIOLCHEM 415.

CHEM 352. Introduction to Biochemical Research Techniques

Current or prior enrollment in CHEM 351. (2). (BS). May not be repeated for credit. No credit granted to those who have completed or are enrolled in CHEM 353.

CHEM 353. Introduction to Biochemical Research Techniques and Scientific Writing

(3). (BS). May not be repeated for credit. No credit granted to those who have completed or are enrolled in CHEM 352.

CHEM 370 / BIOPHYS 370 / PHYSICS 370. Physical and Chemical Principles Behind Biology and Medicine

Students should have knowledge of basic physical chemistry, multivariable or applied calculus and mid-level physics as covered in, for ex: MATH 215 or CHEM 262; CHEM 130 or 210 or PHYSICS 235, 239 or 240. (3). (NS). (BS). May not be repeated for credit. No credit granted to students who have completed or are enrolled in CHEM 260. F, W.

CHEM 398. Undergraduate Research in Biochemistry

Consent of instructor required. Junior standing, and permission of a Biochemistry concentration advisor and the professor who will supervise the research. (1 - 4). (BS). (INDEPENDENT). May be repeated for a maximum of 4 credits. F, W, Sp/Su, Sp, Su.

CHEM 399. Undergraduate Research

Consent of instructor required. Junior standing, and permission of a chemistry concentration advisor and the professor who will supervise the research. (1 - 4). (BS). (INDEPENDENT). May be repeated for a maximum of 4 credits. F, W, Sp/Su, Sp, Su.

CHEM 402. Intermediate Inorganic Chemistry

CHEM 302 or CHEM 303. (3). (BS). May not be repeated for credit.

CHEM 417 / BIOPHYS 417 / PHYSICS 417. Dynamical Processes in Biophysics

Students should have knowledge of intermediate physical chemistry, intermediate/applied calculus (single and multivariable) and intermediate

linear algebra (differential equations) as covered in, for ex: BIOPHYS 370 and MATH 216 or 256 or 286 or 316. (3). (BS). May not be repeated for credit.

CHEM 419. Intermediate Physical Organic Chemistry

CHEM 210 and CHEM 215. (3). (BS). May not be repeated for credit. No credit granted to those who have completed or are enrolled in CHEM 540.

CHEM 420. Intermediate Organic Chemistry

CHEM 215 and 216 or their equivalents. (3). (BS). May not be repeated for credit. No credit granted to those who have completed or are enrolled in CHEM 541.

CHEM 421. Organic Chemistry of Drug Design

CHEM 215. (3). (BS). May not be repeated for credit. MEDCHEM 310.

CHEM 436. Polymer Synthesis and Characterization

CHEM 215/216. (3). (BS). May not be repeated for credit. W odd years.

CHEM 440 / BIOPHYS 440. Biophysics of Diseases

Students should have knowledge of physical chemistry as covered in courses such as: CHEM 230, CHEM 260 or BIOPHYS/CHEM/PHYSICS 370, or PHYSICS 390/391. (3). (BS). May not be repeated for credit.

CHEM 447. Physical Methods of Analysis

CHEM 260 or 370 and 241/242. (3). (BS). May not be repeated for credit. F, W.

CHEM 451 / BIOLCHEM 451. Advanced Biochemistry: Macromolecular Structure and Function

CHEM 215, 260, 351 and BIOLOGY 171 or 172. (4). (BS). May not be repeated for credit.

CHEM 452 / BIOLCHEM 452. Advanced Biochemistry: Cellular Processes

MCDB 310, CHEM 351 or BIOLCHEM 415; (C- or better). Consent of instructor required. (Prerequisites enforced at registration.) (BS). May not be repeated for credit. W.

CHEM 453. Biophysical Chemistry I: Thermodynamics and Kinetics

CHEM 260 (or CHEM 261 and CHEM 230), CHEM 451, PHYSICS 240, and MATH 215 or CHEM 262. (3). (BS). May not be repeated for credit. No credit granted to those who have completed or are enrolled in CHEM 463.

CHEM 455. Special Topics in Biochemistry - Nucleic Acids

CHEM 351, BIOLCHEM 415, MCDB 310 (or equivalent). (3). (BS). May not be repeated for credit.

CHEM 461. Quantum Mechanics

((CHEM 230 and CHEM 261) OR (CHEM 260, CHEM 370, BIOPHYS 370 or PHYSICS 370)) AND ((PHYSICS 235, 240, or 250) AND (MATH 215 or CHEM 262)). Should be elected concurrently with CHEM 462. (3). (BS). May not be repeated for credit.

CHEM 462. Computational Chemistry Laboratory

MATH 215, and prior or concurrent enrollment in CHEM 461. (1). (BS). May not be repeated for credit.

CHEM 463. Thermodynamics and Kinetics

(CHEM 230, 260, 370, BIOPHYS 370, or PHYSICS 370) AND (PHYSICS 235, 240, or 250) AND (MATH 215 or CHEM 262). (3). (BS). May not be repeated for credit. No credit granted to those who have completed or are enrolled in CHEM 453.

CHEM 465. Special Topics in Physical Chemistry

CHEM 461 or equivalent course in quantum mechanics, CHEM 262 or MATH 215/216 or equivalent. (3). (BS). May not be repeated for credit.

CHEM 474. Environmental Chemistry

CHEM 215/216. (3). (BS). May not be repeated for credit.

CHEM 482. Synthesis and Characterization

CHEM 215/216. Prior or concurrent enrollment in CHEM 302 or CHEM 303. (3). (BS). May not be repeated for credit.

CHEM 483. Advanced Methods in Physical Analysis

(CHEM 215/216) and (CHEM 241/242 or CHEM 245/246/247) and (CHEM 230 or CHEM 260). (3). (BS). May not be repeated for credit.

CHEM 485. Projects Laboratory

Consent of department required. (1 - 4). (BS). May be repeated for a maximum of 8 credits. F, W.

CHEM 498. Undergraduate Honors Thesis in Biochemistry

Consent of instructor required. CHEM 398 and permission of instructor. (1). (BS). (INDEPENDENT). May not be repeated for credit.

CHEM 499. Undergraduate Thesis

Consent of instructor required. CHEM 399 and permission of instructor. (1). (BS). (INDEPENDENT). May not be repeated for credit.

CHEM 507. Inorganic Chemistry

CHEM 461. (3). (BS). May not be repeated for credit.

CHEM 511 / MATSCIE 510. Materials Chemistry

CHEM 302 and CHEM 461. (3). (BS). May not be repeated for credit.

CHEM 520 / BIOPHYS 520. Methods of Biophysical Chemistry

CHEM 463, BIOLCHEM 415, or CHEM 420; permission of course director. (3). (BS). May not be repeated for credit.

CHEM 521 / BIOPHYS 521. Principles of Biophysical Chemistry

Consent of department required. CHEM 262 or MATH 215 or equivalent. (3). (BS). May not be repeated for credit.

CHEM 525 / BIOLOGY 525. Chemical Biology I

CHEM 451, 452, 461, and 463. (3). (BS). May not be repeated for credit.

CHEM 526 / BIOLOGY 526. Chemical Biology II

BIOLOGY 525 or CHEM 525. Prior or concurrent enrollment in CHEM 402 or equivalent. (3). (BS). May not be repeated for credit. W.

CHEM 538 / MACROMOL 538. Organic Chemistry of Macromolecules

CHEM 215/216, and CHEM 230 or 260. (3). (BS). May not be repeated for credit. W.

CHEM 540. Organic Principles

CHEM 210 and CHEM 215. (3). (BS). May not be repeated for credit.

CHEM 541. Advanced Organic Chemistry

CHEM 543. (3). (BS). May not be repeated for credit. W.

CHEM 542. Applications of Physical Methods to Organic Chemistry

CHEM 215/216. (3). (BS). May not be repeated for credit.

CHEM 550 / EDUC 554. Chemistry Education Research and Practice

CHEM 210. (3 - 4). May not be repeated for credit.

CHEM 570. Molecular Physical Chemistry

(3). (BS). May not be repeated for credit.

CHEM 575. Chemical Thermodynamics

CHEM 461. (3). (BS). May not be repeated for credit.

CHEM 580. Molecular Spectra and Structure

CHEM 570 or permission of instructor. (3). (BS). May not be repeated for credit. W.

CHEM 673 / BIOLCHEM 673. Kinetics and Mechanism

CHEMBIO 501 or its equivalent, undergrad calculus. Physical Chemistry is recommended. (2). (BS). May not be repeated for credit.

LSA Classical Studies

Courses In Archaeology: Ancient Mediterranean (ARCHAM)

ARCHAM 103. Great Discoveries in Archaeology

(3). (HU). May not be repeated for credit.

ARCHAM 104. Ancient Cities

(3 - 4). (HU). May not be repeated for credit.

ARCHAM 221 / HISTART 221. Temples, Towns and Tombs: Introduction to Greek Art and Archaeology

(4; 3 in the half-term). (HU). May not be repeated for credit.

ARCHAM 222 / HISTART 222. Introduction to Roman Archaeology

(4; 3 in the half-term). (HU). May not be repeated for credit.

ARCHAM 228 / HISTART 228. Visual Cultures of Ancient Rome

(3). (HU). May not be repeated for credit.

ARCHAM 250. Topics in Archaeology of the Ancient Mediterranean

(2 - 3). (HU). May be repeated for a maximum of 6 credits. May be elected more than once in the same term.

ARCHAM 327 / CLCIV 327 / MIDEAST 355 / RELIGION 326. Jews in the Roman Mediterranean: Archaeology, Religion, and Culture

(3). (ID). May not be repeated for credit.

ARCHAM 333. Digging Up the Past: Introduction to Archaeological Methods

(4; 3 in the half-term). (HU). May not be repeated for credit.

ARCHAM 350. Topics in Archaeology of the Ancient Mediterranean

ARCHAM 221, 222, or 333. (3). (HU). May be repeated for a maximum of 12 credits.

ARCHAM 354 / CLCIV 354 / MIDEAST 354 / RELIGION 353. Ancient Jerusalem: Archaeology, Religion, and Culture

(3). (ID). May not be repeated for credit.

ARCHAM 365 / CLCIV 365. The Age of Alexander the Great

(3). (HU). May not be repeated for credit.

ARCHAM 375 / GREEKMOD 375. Engaging Antiquity: Heritage, Museums, Media, Tourism, and Communities

(3). (HU). May not be repeated for credit.

ARCHAM 382 / CLCIV 382 / ENVIRON 392. Food in the Ancient World: Subsistence and Symbol

(3). (HU). May not be repeated for credit.

ARCHAM 383 / CLCIV 383. Death in the Ancient World

(3). (HU). May not be repeated for credit.

ARCHAM 387 / HISTART 387. Archaeology of Ancient Housing

(3). May not be repeated for credit.

ARCHAM 389 / CLCIV 379 / HISTART 389. Pompeii

(3 - 4). (HU). May not be repeated for credit.

ARCHAM 420 / HISTART 430. Greece before History: The Art and Archaeology of Greek Lands ca 3500 to 700 BCE

(3). May not be repeated for credit.

ARCHAM 425. Hellenistic and Republican Roman Architecture

ARCHAM 222. (3). May not be repeated for credit. Rackham credit requires additional work.

ARCHAM 435 / HISTART 435. The Art and Archaeology of Asia Minor

Upperclass standing. (3). May not be repeated for credit.

ARCHAM 440 / HISTART 440. Cities and Sanctuaries of Classical Greece

Upperclass standing, and a course in archaeology. (3; 2 in the half-term). May not be repeated for credit.

ARCHAM 443 / HISTART 443. Greek Colonization

Upperclass standing and ARCHAM/HISTART 221. (3). May not be repeated for credit.

ARCHAM 470. Upper-Level Topics in Archaeology of the Ancient Mediterranean

(2 - 4). May be elected twice for credit.

ARCHAM 480. The Archaeology of Plants and People

(3). May not be repeated for credit.

ARCHAM 482. Ceramic Analysis

(3). May not be repeated for credit. Rackham credit requires additional work.

ARCHAM 495. Senior Honors Research

Consent of instructor required. Upperclass standing. (1 - 3). (INDEPENDENT). May be repeated for a maximum of 6 credits.

ARCHAM 496. Practicum in Museum Studies

Junior or seniors, or permission of instructor. (1 - 3). (EXPERIENTIAL). May be repeated for a maximum of 6 credits.

ARCHAM 497. Practicum in Field Archaeology

Junior or seniors. (1 - 3). (EXPERIENTIAL). May be repeated for a maximum of 6 credits.

ARCHAM 499. Supervised Reading

Consent of instructor required. (1 - 3). (INDEPENDENT). May be repeated for a maximum of 6 credits. May be elected more than once in the same term.

ARCHAM 515 / HISTART 515. The Archaeology of the Roman Economy

ARCHAM/HISTART 222 or permission of instructor and upperclass standing. (3). May not be repeated for credit.

Courses In Classical Archaeology (CLARCH)

CLARCH 427 / HISTART 426. Roman Sculpture: Image and Identity

(3). May not be repeated for credit.

Courses In Classical Civilization (CLCIV)

CLCIV 101. Classical Civilization I: The Ancient Greek World (in English)

(4). (FYWR). May not be repeated for credit. No credit granted to those who have completed or are enrolled in GTBOOKS 191 or 201. F.

CLCIV 120. First-year Seminar in Classical Civilization (Humanities)

Enrollment restricted to first-year students, including those with sophomore standing. (3). (HU). May be repeated for a maximum of 6 credits.

CLCIV 121. First-year Seminar in Classical Civilization (Composition)

Enrollment restricted to first-year students, including those with sophomore standing. (4). (FYWR). May not be repeated for credit.

CLCIV 125. Mini Course in Classical Civilization

(1). (HU). May be repeated for a maximum of 3 credits. May be elected more than once in the same term.

CLCIV 202. Classical Civilization II: The Ancient Roman World (in English)

(4). (HU). May not be repeated for credit.

CLCIV 217. Minicourse on the Origins of Medical Terminology

(1). May not be repeated for credit.

CLCIV 220. Music in the Ancient World

CLCIV 101 or CLCIV 102. (3). (HU). May not be repeated for credit.

CLCIV 250. Topics in the Ancient World

(2 - 3). (HU). May be repeated for a maximum of 6 credits. May be elected more than once in the same term.

CLCIV 253. The Mediterranean: Classical Studies

(3). (HU). May not be repeated for credit.

CLCIV 260. Sex and Gender in the Ancient World

(3). (HU). May not be repeated for credit.

CLCIV 277 / ENVIRON 277 / HISTORY 277. Environmental History of the Ancient Mediterranean

(3). (HU). May not be repeated for credit.

CLCIV 288 / PHIL 288. Ancient Greek and Roman Philosophy

(4; 3 in the half-term). (HU). May not be repeated for credit.

CLCIV 302 / HISTORY 302. The Roman Republic

(4). (HU). May not be repeated for credit.

CLCIV 303 / HISTORY 303 / WGS 303. Women in the Ancient Mediterranean

(3). (HU). May not be repeated for credit.

CLCIV 327 / ARCHAM 327 / MIDEAST 355 / RELIGION 326. Jews in the Roman Mediterranean: Archaeology, Religion, and Culture

(3). (ID). May not be repeated for credit.

CLCIV 328. Ancient Languages and Scripts

(3). (HU). May not be repeated for credit.

CLCIV 341. Classics and Cinema

(4). (HU). May not be repeated for credit.

CLCIV 345. Slavery and Ethnicity in the Ancient World

Junior standing; general familiarity with American history. (3). (HU). (R&E). May not be repeated for credit.

CLCIV 348 / PHIL 348. Greek Science

(3). (HU). May not be repeated for credit.

CLCIV 350. Topics in Classical Civilization

CLCIV 101 and 102. (3). (HU). May be repeated for a maximum of 6 credits.

CLCIV 354 / ARCHAM 354 / MIDEAST 354 / RELIGION 353. Ancient Jerusalem: Archaeology, Religion, and Culture

(3). (ID). May not be repeated for credit.

CLCIV 365 / ARCHAM 365. The Age of Alexander the Great

(3). (HU). May not be repeated for credit.

CLCIV 367 / PHIL 391. Plato

At least one prior course taken under PHIL. (Prerequisites enforced at registration.) (3; 2 in the half-term). (HU). May not be repeated for credit.

CLCIV 371. Sport in the Ancient Greek World

(4). (HU). May not be repeated for credit.

CLCIV 372. Sports and Daily Life in Ancient Rome

(4; 3 in the half-term). (HU). May not be repeated for credit.

CLCIV 375. War in Greek and Roman Civilization

(4). (HU). May not be repeated for credit.

CLCIV 376 / HISTORY 351. Emperors of Rome

(4; 3 in the half-term). (HU). May not be repeated for credit.

CLCIV 379 / ARCHAM 389 / HISTART 389. Pompeii

(3 - 4). (HU). May not be repeated for credit.

CLCIV 382 / ARCHAM 382 / ENVIRON 392. Food in the Ancient World: Subsistence and Symbol

(3). (HU). May not be repeated for credit.

CLCIV 383 / ARCHAM 383. Death in the Ancient World

(3). (HU). May not be repeated for credit.

CLCIV 385. Greek Mythology

(4). (HU). May not be repeated for credit.

CLCIV 389. The Philosophy of Happiness: From Ancient Wisdom To Modern Science

(4). (HU). May not be repeated for credit.

CLCIV 392 / HISTORY 292 / STS 392. Ancient Medicine in Greece & Rome

(4). (HU). May not be repeated for credit.

CLCIV 393. Plato's Dialogues in English

(3). (HU). May not be repeated for credit.

CLCIV 436 / HISTORY 436. From Caesar to Augustus: Rome's Triumviral Period

HIST 201, CLCIV 302 / HIST 302, or some other equivalent introduction to Roman history (approved by the instructor) are required. (3). May not be repeated for credit.

CLCIV 470. Upper Level Topics in Antiquity

(2 - 4). May be elected twice for credit.

CLCIV 476 / HISTORY 405 / RELIGION 476. Pagans and Christians in the Roman World

(4; 3 in the half-term). May not be repeated for credit.

CLCIV 480. Studying Antiquity

Open only to majors in Classical Civilization, Classical Archaeology, Classical Language and Literature, Ancient Greek, Latin, and Modern Greek. (Prerequisites enforced at registration.) (1 - 3). May be repeated for a maximum of 6 credits. May be elected more than once in the same term.

CLCIV 495. Senior Honors Research

Consent of instructor required. Upperclass standing. (1 - 3). (INDEPENDENT). May be repeated for a maximum of 6 credits.

CLCIV 499. Supervised Reading

Permission of Instructor. (1 - 3). (INDEPENDENT). May be repeated for a maximum of 6 credits.

Courses In Greek (GREEK)

GREEK 101. Elementary Greek

(4). May not be repeated for credit. Graduate students should elect GREEK 502. F.

GREEK 102. Elementary Greek

GREEK 101. (Prerequisites enforced at registration.) (4). May not be repeated for credit. No credit granted to those who have completed or are enrolled in GREEK 103 or 503. Graduate students should elect GREEK 503. W.

GREEK 103. Intensive Elementary Greek I

(6). May not be repeated for credit. No credit granted to those who have completed or are enrolled in GREEK 101 or 102, or any subsequent GREEK class. Graduate students should elect as GREEK 504.

GREEK 301. Second-Year Greek

GREEK 102 or 103. (Prerequisites enforced at registration.) (4). May not be repeated for credit. No credit granted to those who have completed or are enrolled in GREEK 507. The language requirement is satisfied with successful completion of both GREEK 301 AND 302. Graduate students should elect GREEK 507. F.

GREEK 302. Second-Year Greek

GREEK 102 or 103. (Lang Req). (4). May not be repeated for credit. No credit granted to those who have completed or are enrolled in GREEK 508. Graduate students should elect as GREEK 508. The language requirement is satisfied with successful completion of both GREEK 301 AND 302. W.

GREEK 401. Readings in Classical Greek Prose

GREEK 302. (3). May be repeated for a maximum of 9 credits.

GREEK 402. Greek Drama

GREEK 302. (3). May be repeated for a maximum of 9 credits. W.

GREEK 410. Elementary Greek Prose

GREEK 302. (3). May not be repeated for credit.

GREEK 436. Herodotus

GREEK 301 and 302. (3; 2 in the half-term). May not be repeated for credit.

GREEK 437. Thucydides

Consent of instructor required. (3). May not be repeated for credit.

GREEK 440. Archaic Hexameter

GREEK 402. (3; 2 in the half-term). May not be repeated for credit.

GREEK 473 / MELANG 470. Advanced Koine

Two years of Greek, one term of New Testament Greek (300 level or equivalent). (3). May not be repeated for credit.

GREEK 495. Senior Honors Research

Consent of instructor required. Upperclass standing. (1 - 3). (INDEPENDENT). May be repeated for a maximum of 6 credits.

GREEK 499. Supervised Reading

Consent of instructor required. (1 - 4). (INDEPENDENT). May be repeated for credit. May not be included in a concentration plan in Greek Language and Literature or Classical Languages and Literatures. Continuing Course. Y grade can be reported at end of the first-term to indicate work in progress. At the end of the second term, the final grade is posted for both term's elections. F, W, Sp, Su.

GREEK 506. Advanced Greek Composition

GREEK 410. (3). May not be repeated for credit.

GREEK 556. Greek Philosophical Literature I

Graduate standing in Classical Studies or permission of instructor. (3). May not be repeated for credit.

Courses In Modern Greek (GREEKMOD)

GREEKMOD 101. Elementary Modern Greek

(4). May not be repeated for credit. No credit granted to those who have completed GREEKMOD 500 or 501.

GREEKMOD 102. Elementary Modern Greek, II

GREEKMOD 101. (4). May not be repeated for credit. No credit granted to those who have completed GREEKMOD 500 or 502.

GREEKMOD 201. Second Year Modern Greek I

GREEKMOD 102. (4). May not be repeated for credit. No credit granted to those who have completed GREEKMOD 503.

GREEKMOD 202. Second Year Modern Greek, II

GREEKMOD 201. (4). (Lang Req). May not be repeated for credit. No credit granted to those who have completed GREEKMOD 504.

GREEKMOD 214. Introduction to Modern Greek Culture

(3). (SS). May not be repeated for credit.

GREEKMOD 253. Literatures of the Mediterranean

(3). (HU). May not be repeated for credit.

GREEKMOD 301. Intermediate Modern Greek I

GREEKMOD 202. (3). May not be repeated for credit. No credit granted to those who have completed GREEKMOD 505.

GREEKMOD 318 / AMCULT 318. Greek-American Culture

(3). (R&E). May not be repeated for credit.

GREEKMOD 330. Translating Modern Greek, Reporting the World

Third-semester Modern Greek or the equivalent, demonstrated through placement testing. (3). (HU). May not be repeated for credit.

GREEKMOD 340 / COMPLIT 340. Travels to Greece

(3). (HU). May not be repeated for credit.

GREEKMOD 341 / COMPLIT 341. Greek Myth in Film

(4). (HU). May not be repeated for credit.

GREEKMOD 350. Topics in Modern Greek

(3). (HU). May be elected twice for credit. May be elected more than once in the same term.

GREEKMOD 360. "The Border Crossed Us": Border Regimes in Global Contexts

(3). (HU). May not be repeated for credit.

GREEKMOD 375 / ARCHAM 375. Engaging Antiquity: Heritage, Museums, Media, Tourism, and Communities

(3). (HU). May not be repeated for credit.

GREEKMOD 399. Directed Study

Consent of instructor required. (1 - 4). (INDEPENDENT). May not be repeated for credit.

GREEKMOD 495. Senior Honors Research

Consent of instructor required. Junior or senior standing. (1 - 3). (INDEPENDENT). May be repeated for a maximum of 6 credits.

GREEKMOD 499. Supervised Reading

Permission of instructor. (1 - 3). (INDEPENDENT). May be repeated for a maximum of 9 credits.

Courses In Great Books Program (GTBOOKS)**GTBOOKS 191. Great Books**

First-Year students in the Honors Program. (4). (HU). (FYWR). May not be repeated for credit. No credit granted to those who have completed or are enrolled in GTBOOKS 201 or CLCIV 101.

GTBOOKS 201. Great Books of the Ancient World

(4). (HU). May not be repeated for credit. No credit granted to those who have completed or are enrolled in GTBOOKS 191 or CLCIV 101.

GTBOOKS 212 / COMPLIT 222. Great Books in World Literatures

(3). (HU). May not be repeated for credit.

Courses In Latin (LATIN)**LATIN 101. Elementary Latin**

(4). May not be repeated for credit. Credit is granted for no more than two courses among LATIN 101, 102 and 103. No credit granted to those who have completed or are enrolled in LATIN 504.

LATIN 102. Elementary Latin

LATIN 101. (Prerequisites enforced at registration.) Restricted by placement exam or permission of Elementary Latin Program coordinator. (4). May not be repeated for credit. Credit is granted for no more than two courses among LATIN 101, 102 and 103. No credit granted to those who have completed or are enrolled in LATIN 504.

LATIN 103. Review Latin

Restricted by placement exam or permission of Elementary Latin Program coordinator. (4). May not be repeated for credit. Credit is granted for no more than two courses among LATIN 101, 102 and 103. No credit granted to those who have completed or are enrolled in LATIN 504.

LATIN 193. Intensive Elementary Latin I

(4). May not be repeated for credit. No credit granted to those who have completed or are enrolled in LATIN 101, 102, 103 or 502. F.

LATIN 231. Roman Kings and Emperors

LATIN 102, 103, or 195. (Prerequisites enforced at registration.) Restricted by placement exam or permission of Elementary Latin Program coordinator. (4). May not be repeated for credit. No credit granted to those who have completed or are enrolled in LATIN 295.

LATIN 232. Vergil, Aeneid

LATIN 231. (Prerequisites enforced at registration.) Restricted by placement exam or permission of Elementary Latin Program coordinator. (4). (Lang Req). May not be repeated for credit. No credit granted to those who have completed or are enrolled in LATIN 295.

LATIN 233. Latin of Science

LATIN 231. (Prerequisites enforced at registration.) Restricted by placement exam or permission of Elementary Latin Program coordinator. (4). (Lang Req). May not be repeated for credit.

LATIN 294. Intensive Elementary Latin II

LATIN 193 or equivalent. (4). May not be repeated for credit. No credit granted to those who have completed or are enrolled in LATIN 231, 232, or 503. Graduate students should elect LATIN 503.

LATIN 301. Intermediate Latin I

LATIN 194 or 232. (3; 2 in the half-term). (HU). May not be repeated for credit.

LATIN 401. Republican Prose

LATIN 301 or 302 or permission of instructor. (3; 2 in the half-term). May be repeated for a maximum of 9 credits. F.

LATIN 402. Imperial Prose

LATIN 301 or 302 or permission of instructor. (3; 2 in the half-term). May be repeated for a maximum of 9 credits. W.

LATIN 403. Elementary Latin Composition

LATIN 301. (3). May not be repeated for credit.

LATIN 409. Augustan Poetry

LATIN 301 or 302 or permission of instructor. (3; 2 in the half-term). May be repeated for a maximum of 9 credits.

LATIN 410. Poetry of the Republic or Later Empire

LATIN 301 or 302 or permission of instructor. (3; 2 in the half-term). May be repeated for a maximum of 9 credits. W.

LATIN 421 / EDCURINS 421. Teaching of Latin

Junior standing in Latin and permission of instructor. (3; 2 in the half-term). May not be repeated for credit. F, W, Sp.

LATIN 426. Practicum

Consent of instructor required. Junior or senior standing. (1). (EXPERIENTIAL). May be repeated for a maximum of 3 credits. F, W, Su. Offered mandatory credit/no credit.

LATIN 435 / MEMS 440. Postclassical Latin

Two years of college Latin. (3; 2 in the half-term). May not be repeated for credit.

LATIN 443. Latin Elegy

At least one intermediate LATIN course (LATIN 401, 402, 409, 410). (3). May not be repeated for credit. No credit granted to those who have completed or are enrolled in LATIN 551. Rackham credit requires additional work.

LATIN 472. Topics in Latin Literature and Culture

(3). May not be repeated for credit. Rackham credit requires additional work.

LATIN 473. The Age of Nero

At least one intermediate LATIN course (LATIN 401, 402, 409, 410). (3; 2 in the half-term). May not be repeated for credit.

LATIN 490. Martial and Roman Epigram

LATIN 301. (3). May not be repeated for credit.

LATIN 495. Senior Honors Research

Consent of instructor required. Upperclass standing. (1 - 3). (INDEPENDENT). May be repeated for a maximum of 6 credits.

LATIN 499. Latin: Supervised Reading

Consent of instructor required. (1 - 4). (INDEPENDENT). May be repeated for credit. May not be included in a concentration plan in Greek Language and Literature or Classical Languages and Literatures. F, W, Sp, Su.

LATIN 506. Advanced Latin Composition

LATIN 403. (3). May not be repeated for credit. F.

LATIN 599. Supervised Reading in Latin Literature

Consent of instructor required. (1 - 4). (INDEPENDENT). May not be repeated for credit. F, W, Sp, Su.

LSA Communication and Media

Courses In Communication and Media (COMM)

COMM 101. The Media, Past and Present

Freshman, sophomore or junior standing. (Prerequisites enforced at registration.) (4). (SS). May not be repeated for credit.

COMM 102. Media Processes and Effects

Freshman, sophomore or junior standing. (Prerequisites enforced at registration.) (4). (SS). May not be repeated for credit.

COMM 159. First-year Seminar in Media Issues

First-year students only. (Prerequisites enforced at registration.) (3). (SS). May not be repeated for credit. Credits do not count toward the Communication Studies major requirements.

COMM 221. Quantitative Skills for Communication Studies

COMM 102 strongly recommended. (4). (SS). (BS). (QR/1). May not be repeated for credit. No credit for students who have completed COMM 121.

COMM 230. Principles of Advertising

COMM 101 or COMM 102. (3 - 4). May not be repeated for credit.

COMM 251. Understanding Media Industries

(4). (SS). May not be repeated for credit.

COMM 261. Views on the News: What Shapes our Media Content

COMM 102 (completed with a minimum grade of C- or better). (4). (SS). May not be repeated for credit.

COMM 271. Communication Revolutions

COMM 101 (completed with a minimum grade of C- or better). (4). (HU). May not be repeated for credit.

COMM 281. Media Psychology

COMM 102 (completed with a minimum grade of C- or better). (4). (SS). May not be repeated for credit.

COMM 290 / ALA 290. Public Speaking in the Digital Age

(3 - 4). May not be repeated for credit. No credit granted to those who have completed or are enrolled in SM 101 - Public & Small Group Communication.

COMM 291 / ALA 291. Public Speaking: World of Work

(3). May not be repeated for credit.

COMM 292 / ALA 292. Argumentation and Debate

(3). May not be repeated for credit.

COMM 304. Mini Course in Communication and Media

(1 - 2). May be elected twice for credit. May be elected more than once in the same term.

COMM 305. Survey of Media Topics

COMM 101 and COMM 102 strongly recommended. (3 - 4). May be repeated for a maximum of 8 credits. May be elected more than once in the same term.

COMM 306. Survey of Media Topics in the Humanities

COMM 101, a previous humanities course, or sophomore standing. (1 - 4). (HU). May be repeated for a maximum of 8 credits. May be elected more than once in the same term.

COMM 307. Survey of Media Topics in the Social Sciences

COMM 102, another SS course, or sophomore standing. (1 - 4). (SS). May be repeated for a maximum of 8 credits. May be elected more than once in the same term.

COMM 317. Designing Persuasive Communication

COMM 261 or COMM 281 strongly recommended. (3). May not be repeated for credit. No credit granted to those who have completed COMM 462 or MKT 411.

COMM 321. Undergraduate Internship

Consent of instructor required. Junior standing, concentration in Communication Studies, and permission of instructor. Internship credit is not retroactive and must be prearranged. (1 - 3). (EXPERIENTIAL). May be repeated for a maximum of 6 credits. May not be used to satisfy Communication Studies electives in a Communication Studies major. Offered mandatory credit/no credit.

COMM 322. Faculty Directed Undergraduate Research Practicum

Consent of instructor required. (1 - 3). May be repeated for a maximum of 6 credits. Maximum of 3 credits from COMM 322 and/or COMM 441/442 may be used toward the Communication Studies concentration requirements. A maximum of three credits from COMM 322, 441, or 442 may be counted toward the concentration requirements.

COMM 324. Political Communication

COMM 102, COMM 261. (3 - 4). (SS). May not be repeated for credit.

COMM 330. Brands and Society

COMM 101. (3 - 4). May not be repeated for credit.

COMM 331. Whiteness and the Media

No credit in COMM 306 with the topic "Whiteness and the Media". (Prerequisites enforced at registration.) COMM 101, a previous humanities course, or sophomore standing. (4). (HU). (R&E). May not be repeated for credit.

COMM 334 / AMCULT 334 / DIGITAL 334 / FTVM 334. Race, Gender, Sexuality and U.S. Culture in Video Games

(4; 3 in the half-term). (R&E). May not be repeated for credit.

COMM 340. Gender and the Media

COMM 101 strongly advised. (3 - 4). (HU). May not be repeated for credit.

COMM 341. Fashion and Media

COMM 101. (4). May not be repeated for credit. No credit granted to those who have completed or are enrolled in COMM 414.

COMM 344. The Electronic Sandman: Media Use and Sleep

No credit in COMM 307 with the topic "The Electronic Sandman: Media Use and Sleep.". (Prerequisites enforced at registration.) COMM 102, a previous social science course, or sophomore standing strongly advised. (3 - 4). (SS). May not be repeated for credit.

COMM 345. Communicating Science, Health, and Environment

No credit in COMM 307 with the topic "Communicating Science, Health & Environment". (Prerequisites enforced at registration.) COMM 102, another SS course, or sophomore standing. (4). (SS). May not be repeated for credit.

COMM 346 / AMCULT 346 / DIGITAL 346 / FTVM 346 / GERMAN 346. Media Matter: From Print to Screen Culture

(3). (HU). May not be repeated for credit.

COMM 348. Media and the Body

(4). May not be repeated for credit.

COMM 350. The Rise and Demise of Mass Culture

COMM 101 with minimum grade of C- or better. (4). May not be repeated for credit.

COMM 355. Critical Approaches to the Internet

(4). May not be repeated for credit.

COMM 360. Television and Social Change

(3 - 4). (HU). May not be repeated for credit.

COMM 370. Social Networks

No credits granted to those who have completed COMM 307 with the topic #5 "Social Networks.". (Prerequisites enforced at registration.) COMM 102. (4). (SS). May not be repeated for credit.

COMM 375. Sports, Media and Culture

COMM 101 with a grade of C- or better. (4). May not be repeated for credit.

COMM 404. Special Topics in Mass Media and Mass Communication

COMM 101 strongly recommended. (3). May be repeated for a maximum of 6 credits. May be elected more than once in the same term.

COMM 405. Seminar in Mass Media and Mass Communication

COMM 101 strongly recommended. (3). May be repeated for a maximum of 6 credits. May be elected more than once in the same term.

COMM 408. Special Topics in Media Effects

COMM 102 strongly recommended. (3). May be repeated for a maximum of 6 credits. May be elected more than once in the same term.

COMM 409. Seminar in Media Effects

COMM 102 strongly recommended. (3). May be repeated for a maximum of 6 credits. May be elected more than once in the same term.

COMM 413 / ENVIRON 413. Environmental Communication

(3). May not be repeated for credit.

COMM 421. Media Law and Policy

COMM 251 strongly recommended. (3). May not be repeated for credit.

COMM 423. Computer Mediated Communication

COMM 101 and COMM 102 strongly recommended. (3). May not be repeated for credit.

COMM 427. Strategic Communication in Healthcare Organizations and Industries

COMM 101 and COMM 102. (3). May not be repeated for credit.

COMM 431. Supreme Court News Coverage

COMM 261 strongly recommended. (3). May not be repeated for credit.

COMM 432. Foreign News Coverage

COMM 261 strongly recommended. (3). May not be repeated for credit.

COMM 435. News Media Ethics

(3). May not be repeated for credit.

COMM 439. Seminar in Journalistic Performance

COMM 261 strongly recommended. (3). May be repeated for a maximum of 6 credits. May be elected more than once in the same term.

COMM 441. Independent Reading

Consent of department required. (3 - 4). (INDEPENDENT). May be repeated for a maximum of 8 credits. COMM 441 and 442 may be repeated for a combined total of eight credits. A maximum of 3 credits from COMM 322 and/or COMM 441/442 may be used toward the Communication Studies major requirements. Offered mandatory credit/no credit.

COMM 442. Independent Research

Consent of department required. (1 - 4). (INDEPENDENT). May be repeated for a maximum of 8 credits. COMM 441 and 442 may be repeated for a combined total of eight credits. A maximum of 3 credits from COMM 322 and/or COMM 441/442 may be used toward the Communication Studies major requirements. Offered mandatory credit/no credit.

COMM 451. Senior Thesis Seminar

Completion of LSA quantitative reasoning requirement with a C grade or better. (Prerequisites enforced at registration.) COMM 221, COMM 222, STATS 250 OR STATS 280 (honors) strongly recommended. (3). May not be repeated for credit.

COMM 452. Senior Thesis

COMM 451 with a C or better. (Prerequisites enforced at registration.) (3). May not be repeated for credit.

COMM 458. Documentary Journalism: Representing Reality on the Screen

COMM 101 and junior standing. (3). May not be repeated for credit.

COMM 461. Visuality and the New Media

Declared Communication Studies seniors ONLY. (Prerequisites enforced at registration.) COMM 365 strongly recommended. (3). May not be repeated for credit. No more than 3 credits from Comm 450-490.

COMM 464. Social Consequences of Mobile Communication

Declared Communication Studies seniors ONLY. (Prerequisites enforced at registration.) COMM 251 and COMM 261 strongly recommended. (3). May not be repeated for credit. No more than three credits can be elected from COMM 450-490.

COMM 466. Global Digital Politics

Declared Communication Studies seniors ONLY. (Prerequisites enforced at registration.) COMM 325 OR COMM 329 strongly recommended. (3). May not be repeated for credit. No more than 3 credits from Comm 450-490.

COMM 467. Debating Politics and Science: Science, News, Public Opinion and Policy

Declared Communication Studies seniors ONLY. (Prerequisites enforced at registration.) (3). May not be repeated for credit. No more than three credits from COMM 450-490.

COMM 468. Political Misinformation and Misperceptions

Declared Communication Studies seniors ONLY. (Prerequisites enforced at registration.) COMM 329 strongly recommended. (3). May not be repeated for credit. No more than 3 credits can be elected from COMM 450-490.

COMM 473. Media Fandom

Declared Communication and Media seniors only. (Prerequisites enforced at registration.) (3). May not be repeated for credit. No more than three credits can be elected from COMM 450-490.

COMM 474. Trends in Consumer Culture

Communication and Media major and senior standing. (Prerequisites enforced at registration.) (3). May not be repeated for credit.

COMM 476. Media and Emotion

Communication and Media major and senior standing. (3). May not be repeated for credit.

COMM 477. The Mass Media and Celebrity Culture

Declared Communication Studies seniors ONLY. (Prerequisites enforced at registration.) (3). May not be repeated for credit. No more than three credits from COMM 450-490.

COMM 490. Capstone Seminars in Media Topics

Declared Communication Studies Seniors ONLY. (Prerequisites enforced at registration.) COMM 251, COMM 261, COMM 271 or COMM 281 strongly recommended. (3). May not be repeated for credit. No more than three credits can be elected from COMM 450-490.

COMM 491. Senior Thesis and Honors Seminar I

Completion of LSA quantitative reasoning requirement with a C grade or better. (Prerequisites enforced at registration.) COMM 221, COMM 222, STATS 250 or STATS 280 (honors) strongly recommended. (3). May not be repeated for credit. No more than 3 credits of COMM 491-492 may be included in a communication concentration plan.

COMM 492. Senior Honors Thesis

Consent of instructor required. COMM 451/491 and permission of instructor. (3). May not be repeated for credit. No more than three credits of COMM 491-492 may be included in a communication studies concentration plan.

LSA Comparative Literature**Courses In Comparative Literature (COMPLIT)****COMPLIT 100. Global X**

(3 - 4; 2 - 3 in the half-term). (HU). May be elected twice for credit.

COMPLIT 122. Writing World Literatures
(4). (FYWR). May not be repeated for credit.

COMPLIT 140. First-Year Literary Seminar
Enrollment restricted to first-year students, including those with sophomore standing. (3). (HU). May be repeated for a maximum of 6 credits.

COMPLIT 141. Great Performances
(4). (FYWR). May not be repeated for credit.

COMPLIT 200. Translation Across Disciplines
(3). (HU). May not be repeated for credit.

COMPLIT 222 / GTBOOKS 212. Great Books in World Literatures
(3). (HU). May not be repeated for credit.

COMPLIT 240. Literature Across Borders
(3; 2 in the half-term). (HU). May not be repeated for credit. This course may be counted toward the International Studies subplan in Comparative Culture and Identity. F.

COMPLIT 241. Topics in Comparative Literature
(3; 2 in the half-term). (HU). May not be repeated for credit. W.

COMPLIT 260. Europe and Its Others
(3). (HU). May not be repeated for credit.

COMPLIT 300. Global Humanities
(1 - 4; 1 - 2 in the half-term). (HU). May be repeated for a maximum of 8 credits. May be elected more than once in the same term.

COMPLIT 310 / PHIL 310. Topics in Literature and Philosophy
Student may not elect the same course topic twice including COMPLIT/PHIL 310 or 311. (Prerequisites enforced at registration.) (3 - 4). (HU). (R&E). May be elected twice for credit. Student may not elect the same topic twice across PHIL 311/COMPLIT 311 or PHIL 310/COMPLIT 310 regardless of course subject and number.

COMPLIT 311 / PHIL 311. Topics in Philosophy and Literature
Student may not elect the same course topic twice including PHIL/COMPLIT 310 or 311. (Prerequisites enforced at registration.) (3 - 4). (HU). (R&E). May be elected twice for credit. Student may not elect the same topic twice across PHIL 311/COMPLIT 311 or PHIL 310/COMPLIT 310 regardless of course subject and number.

COMPLIT 313 / AMCULT 368 / SM 361. City of Champions: Detroit Sports Culture in Context
Familiarity with US sports and/or a strong interest in urban history. (3). (HU). May not be repeated for credit.

COMPLIT 322. Translating World Literatures
(3). (HU). May not be repeated for credit.

COMPLIT 323. Adapting World Literatures
(3). (HU). May not be repeated for credit.

COMPLIT 340 / GREEKMOD 340. Travels to Greece
(3). (HU). May not be repeated for credit.

COMPLIT 341 / GREEKMOD 341. Greek Myth in Film
(4). (HU). May not be repeated for credit.

COMPLIT 350. The Text and Its Cultural Context
(3). (HU). May be repeated for a maximum of 6 credits.

COMPLIT 364. Comparative Literary Movements and Periods
(3). (HU). May be repeated for a maximum of 6 credits. May be elected more than once in the same term.

COMPLIT 372. Literature and Identity
(3). (HU). May be repeated for a maximum of 6 credits. May be elected more than once in the same term.

COMPLIT 374. Literature and the Body
(3 - 4). (HU). May be repeated for a maximum of 6 credits.

COMPLIT 376. Literature and Ideas
(3 - 4). (HU). May be repeated for a maximum of 8 credits. May be elected more than once in the same term.

COMPLIT 382. Literature and the Other Arts
(3). (HU). May be repeated for a maximum of 9 credits. May be elected more than once in the same term.

COMPLIT 422. Comparing World Literatures and Cultures
Junior or upper class standing. (3 - 4; 2 - 3 in the half-term). May be repeated for a maximum of 8 credits. May be elected more than once in the same term.

COMPLIT 434. Comparative Studies in Poetry
Junior standing. (3). May be repeated for a maximum of 6 credits.

COMPLIT 438. Comparative Studies in Film
Junior standing. (3). May be repeated for a maximum of 6 credits.

COMPLIT 490. Comparative Cultural Studies
Junior standing. (3). May be repeated for a maximum of 6 credits.

COMPLIT 492. Comparative Literary Theory
Junior standing. (3). May be repeated for a maximum of 6 credits.

COMPLIT 495. Senior Seminar in Comparative Literature
Comparative Literature majors with senior standing. (3). May not be repeated for credit. F.

COMPLIT 496. Honors Thesis
Consent of instructor required. COMPLIT 495 and Honors concentration in Comparative Literature. (3). (INDEPENDENT). May not be repeated for credit. Continuing Course. Y grade can be reported at end of the first-term to indicate work in progress. At the end of the second term, the final grade is posted for both term's elections. F, W, Sp, Su.

COMPLIT 497. Translation Studies Undergraduate Capstone
Consent of department required. (3). May not be repeated for credit.

COMPLIT 498. Directed Reading
Consent of instructor required. (1 - 4). (INDEPENDENT). May be repeated for a maximum of 9 credits. May be elected more than once in the

same term. F, W, Sp/Su, Sp, Su.

LSA Complex Systems

Courses In Complex Systems (CMPLXSYS)

CMPLXSYS 100. Complexity: From Simple Rules to Complex Behavior

(4). (MSA). (BS). (QR/1). May not be repeated for credit.

CMPLXSYS 250 / ENVIRON 250 / PUBPOL 250. Energy and Climate Change: Technology, Markets, and Policy

(3). (BS). (QR/1). May not be repeated for credit.

CMPLXSYS 251 / SOC 251. Computational Social Sciences

One intro statistics course (for example, STATS 250 or its social science equivalent). (4). (SS). (QR/1). May not be repeated for credit.

CMPLXSYS 260 / SOC 260. Tipping Points, Bandwagons and Cascades: From Individual Behavior to Social Dynamics

(3). May not be repeated for credit.

CMPLXSYS 270. Introduction to Agent-Based Modeling

(3). (MSA). (BS). (QR/1). May not be repeated for credit. Only 2 credits earned by students enrolled in or having completed CMPLXSYS 200.

CMPLXSYS 325 / EEB 325. Memes, Measles and Misinformation

(3). (MSA). (BS). (QR/1). May not be repeated for credit.

CMPLXSYS 335. Introduction to Network Science

(3). (MSA). (BS). (QR/1). May not be repeated for credit.

CMPLXSYS 351. Introduction to Social Science Data

(2 in the half-term). (MSA). (BS). May not be repeated for credit.

CMPLXSYS 391 / POLSCI 391. Introduction to Modeling Political Processes

One course in Political Science. (4). (SS). (BS). (QR/1). May not be repeated for credit.

CMPLXSYS 399. Independent Study-Directed Readings

Consent of instructor required. (1 - 3; 2 in the half-term). May be repeated for a maximum of 6 credits. May be elected more than once in the same term.

CMPLXSYS 401. History and Philosophy of Complex Systems

Junior, Senior, or Graduate standing. (3). (BS). May not be repeated for credit.

CMPLXSYS 445 / BIOPHYS 445 / MATH 445 / PHYSICS 445. Entropy and Information: Concepts and Applications

MATH 215 (Multivariable and Vector Calculus). (Prerequisites enforced at registration.) MATH 425/STATS 425. (3). (BS). May not be repeated for credit.

CMPLXSYS 466 / EEB 466 / MATH 466. Mathematical Ecology

MATH 217, 417, or 419; MATH 256, 286, or 316; and MATH 450 or 451. (3). May not be repeated for credit. Rackham credit requires additional work.

CMPLXSYS 489. Advanced Topics in Complex Systems

Advanced standing. Technical prerequisites vary with topic. (3). May be elected three times for credit. Rackham credit requires additional work.

CMPLXSYS 510 / MATH 550. Introduction to Adaptive Systems

MATH 205, 215, 255, or 285; MATH 217; and MATH 425 or 525. (3). (BS). May not be repeated for credit.

CMPLXSYS 511 / MATH 511. Theory of Complex Systems

(3). (BS). May not be repeated for credit.

CMPLXSYS 530 / EPID 638. Computer Modeling of Complex Systems

CMPLXSYS 270 or some experience with computer programming and math modeling concepts. (3). (BS). May not be repeated for credit.

CMPLXSYS 535 / PHYSICS 508. Theory of Social and Technological Networks

Calculus and linear algebra; some computer programming experience recommended. (3). (BS). May not be repeated for credit.

CMPLXSYS 541 / PHYSICS 413. Introduction to Nonlinear Dynamics and the Physics of Complexity

PHYSICS 401 or Graduate Standing. (Prerequisites enforced at registration.) An intermediate mechanics course (such as PHYSICS 401) and/or a course in introductory differential equations. (3). (BS). May not be repeated for credit. F.

LSA Comprehensive Studies

Courses In Comprehensive Studies Program (CSP)

CSP 100. CSP Readings Seminar

(3). (SS). May be elected twice for credit. F, W, Su.

CSP 101. Comprehensive Studies Program: Our History of Academic Success

Consent of department required. (1). May be repeated for a maximum of 2 credits. Offered mandatory credit/no credit.

CSP 103 / MATH 103. Introduction to Functions

Consent of department required. Open to designated CSP Summer and Summer Bridge Scholars Program students. (3 in the half-term). (BS). (QR/1). May not be repeated for credit.

CSP 105. Reading and Writing Seminar: Insiders/Outsiders

(4; 3 in the half-term). (HU). May not be repeated for credit. W.

LSA Digital Studies Institute

Courses In Digital Studies (DIGITAL)

DIGITAL 158. First Year Seminar in Digital Studies

(3). (HU). May not be repeated for credit.

DIGITAL 200 / WRITING 200. Writing with Digital and Social Media

(3). May be elected three times for credit. May be elected more than once in the same term.

DIGITAL 201 / WRITING 201. Writing with Digital and Social Media Mini Course

(1). May be elected three times for credit. May be elected more than once in the same term.

DIGITAL 202 / AMCULT 202. Digital Culture

(4; 3 in the half-term). (ID). May not be repeated for credit. No credit granted to those who have completed or are enrolled in ENGLISH/DIGITAL 280 or FTVM 202 (SAC 202)/DIGITAL 220.

DIGITAL 258. Humanities Themes in Digital Studies

(1 - 4). (HU). May be repeated for a maximum of 9 credits. May be elected more than once in the same term.

DIGITAL 280 / ENGLISH 280. Introduction to Digital Studies

(3). (HU). May not be repeated for credit. No credit granted to those who have completed or are enrolled in AMCULT 202: Digital Culture or SAC 202: Introduction to Digital Media Studies.

DIGITAL 285 / SOC 285. Social Life in the Digital World

(4). (SS). May not be repeated for credit.

DIGITAL 333 / EDUC 333. Video Games and Learning

(SS). May not be repeated for credit.

DIGITAL 334 / AMCULT 334 / COMM 334 / FTVM 334. Race, Gender, Sexuality and U.S. Culture in Video Games

(4; 3 in the half-term). (R&E). May not be repeated for credit.

DIGITAL 346 / AMCULT 346 / COMM 346 / FTVM 346 / GERMAN 346. Media Matter: From Print to Screen Culture

(3). (HU). May not be repeated for credit.

DIGITAL 354 / FTVM 354. New Media History

FTVM 150 or FTVM (SAC) 236. (3). (HU). May not be repeated for credit.

DIGITAL 355. Topics in Digital Creative Expression

(1 - 4; 3 in the half-term). (CE). May be repeated for a maximum of 9 credits. May be elected more than once in the same term.

DIGITAL 357. Digital Studies and the Humanities

(1 - 4). (HU). May be repeated for a maximum of 9 credits. May be elected more than once in the same term.

DIGITAL 358 / AMCULT 358. Topics in Digital Studies

(1 - 4). (ID). May be repeated for a maximum of 9 credits. May be elected more than once in the same term.

DIGITAL 359. Digital Studies and the Social Sciences

(1 - 4). (SS). May be repeated for a maximum of 9 credits. May be elected more than once in the same term.

DIGITAL 366. Interdisciplinary Themes in Digital Studies

(1 - 4). (ID). May be repeated for a maximum of 9 credits.

DIGITAL 376 / FTVM 376. New Media Theory

FTVM 150 or FTVM (SAC) 236. (3). (HU). May not be repeated for credit.

DIGITAL 394 / FTVM 394. Topics in Digital Media Production

Some media production experience. (4). (CE). May be repeated for a maximum of 8 credits.

DIGITAL 395. Independent Study in Digital Studies

Consent of instructor required. (1 - 4). (INDEPENDENT). May be elected twice for credit.

DIGITAL 410 / AMCULT 410 / SI 410 / STS 410. Ethics and Information Technology

Junior or Senior. (Prerequisites enforced at registration.) May not be repeated for credit.

DIGITAL 411 / ARCH 411. Becoming Digital

May not be repeated for credit.

DIGITAL 420 / ENGLISH 420. Technology and the Humanities

(3). May not be repeated for credit.

DIGITAL 458. Seminar in Digital Studies

(3 - 4). May be elected twice for credit.

DIGITAL 595. Independent Study in Digital Studies

(1 - 4). (INDEPENDENT). May be elected twice for credit.

LSA Earth & Environmental Sciences**Courses In Earth and Environmental Sciences (EARTH)****EARTH 100. Coral Reefs**

(1). (NS). (BS). May not be repeated for credit. No credit granted to those who have completed or are enrolled in EARTH 156.

EARTH 101. Matter, Life, and Environment

(1). (NS). (BS). May not be repeated for credit. No credit granted to those who have completed or are enrolled in EARTH 171 or GEOSCI 171, or ENVIRON 110, BIOLOGY 110 or AOSS 171 or ENSCEN 171.

EARTH 102. Energy from the Earth

(1). (NS). (BS). May not be repeated for credit. No credit granted to those who have completed or are enrolled in EARTH 158.

EARTH 103. Dinosaurs and Other Failures

(1). (NS). (BS). May not be repeated for credit. No credit granted to those who completed or are enrolled in EARTH 150.

EARTH 104. Ice Ages, Past and Future

(1). (NS). (BS). May not be repeated for credit. No credit granted to those who have completed or are enrolled in EARTH 151 or GEOSCI 151.

EARTH 105. Our Active Earth: Plate Tectonics and Geohazards

(1). (NS). (BS). May not be repeated for credit. No credit granted to those who have completed or are enrolled in EARTH 205 or 146 or GEOSCI 205 or 146.

EARTH 106. Earth Science in Feature Films Minicourse

No prior scientific knowledge is required. (1). (NS). (BS). May not be repeated for credit. No credit granted to those who have completed or are enrolled in EARTH 141.

EARTH 107. Volcanoes and Earthquakes

(1). (NS). (BS). May not be repeated for credit. No credit granted to those who have completed or are enrolled in EARTH 205 or 146 or 147; or GEOSCI 205 or 146 or 147.

EARTH 108. When Earth Attacks: The Science Behind Natural Disasters

(1). (NS). (BS). May not be repeated for credit. No credit granted to those who have completed or are enrolled in EARTH 147 or GEOSCI 147.

EARTH 109. Water and Society

(1). (NS). (BS). May not be repeated for credit. No credit granted to those who have completed or are enrolled in GEOSCI 206 or EARTH 206 or ENVIRON 206.

EARTH 110. Evolving Oceans

(1). (NS). (BS). May not be repeated for credit. No credit granted to those who have completed or are enrolled in GEOSCI 222 or EARTH 222/ENVIRON 232.

EARTH 112. The Great Lakes

No prior scientific knowledge is required. (1). (NS). (BS). May not be repeated for credit. No credit granted to those who have completed or are enrolled in EARTH 417.

EARTH 113. Planets and Moons

(1). (NS). (BS). May not be repeated for credit. No credit granted to those who have completed or are enrolled in GEOSCI 153 or 204, or EARTH 153 or 204, or AOSS 204 or ASTRO 204.

EARTH 114. Global Warming

High School math, physics, and chemistry. (1). (NS). (BS). May not be repeated for credit. No credit granted to those who have completed or are enrolled in GEOSCI 151 or EARTH 151.

EARTH 115. The Science Behind Michigan's Environmental Justice Issues

(1). (NS). (BS). May not be repeated for credit.

EARTH 116 / ENVIRON 116. Introductory Geology in the Field

(6 in the half-term). (NS). (BS). May not be repeated for credit. Reduced credit: Students who have completed GEOSCI 117 or EARTH 117 or ENVIRON 117 receive 2 credits; GEOSCI 119 or 120 or EARTH 119 or 120 or ENVIRON 119 or 120, 3 credits; GEOSCI 205 AND 206 or EARTH 205 AND 206 or ENVIRON 206, 3 credits; one of GEOSCI 205 or 206 or EARTH 205 or 206 or ENVIRON 206, 4 credits. Su at Camp Davis, Wyoming. May not be taken pass/fail.

EARTH 118 / ENVIRON 118. Introductory Earth Science Laboratory

Prior or concurrent enrollment in EARTH 119, or 205 and 206, or 284. (1). (NS). (BS). May not be repeated for credit. No credit if completed an introductory course in geology (EARTH/ENVIRON 116, 117, or 120). F, W.

EARTH 119 / ENVIRON 119. Introduction to Earth Science

Concurrent enrollment in ENVIRON or EARTH (GEOSCI) 118 for the lab. (3). (NS). (BS). May not be repeated for credit. No credit granted to those who have completed GEOSCI 116, 117, or 120. No credit granted to those who have completed or are enrolled in EARTH/ENVIRON 116, 117, or 120. No credit granted to those who have completed both EARTH/ENVIRON 205 and EARTH/ENVIRON 206. Two credits granted to those who have completed one of EARTH/ENVIRON 205 or EARTH/ENVIRON 206. F, W.

EARTH 120 / ENVIRON 120. Geology of National Parks and Monuments

(4). (NS). (BS). May not be repeated for credit. No credit if completed EARTH (GEOSCI)/ENVIRON 116, 117, or 119, or both EARTH (GEOSCI) 205 AND EARTH (GEOSCI)/ENVIRON 206. Only 3 credits with EARTH (GEOSCI) 205 or EARTH (GEOSCI)/ENVIRON 206. W.

EARTH 122 / CLIMATE 102 / ENVIRON 102. Extreme Weather

(3). (NS). (BS). May not be repeated for credit.

EARTH 125. Evolution and Extinction

(3). (NS). (BS). May not be repeated for credit. Those with credit for GEOSCI 106 or EARTH 106 may only elect EARTH 125 for 2 credits. May not be included in a concentration plan in Geological Sciences.

EARTH 130 / CHEM 108 / PHYSICS 119. The Physical World

High-school algebra. (4). (NS). (BS). (QR/2). May not be repeated for credit.

EARTH 131 / ENVIRON 131. Earth and Environmental Chemistry

(4). (NS). (BS). (QR/2). May not be repeated for credit. No credit granted to those who have completed or are enrolled in CHEM 130 (Gen Chem).

EARTH 132. Earth and Environmental Math

(4). (MSA). (BS). (QR/1). May not be repeated for credit. MATH 115, MATH 120, or MATH 185.

EARTH 133. Programming in Earth and Environmental Sciences

EARTH 132; MATH 115 or equivalent. (4). (MSA). (BS). (QR/1). May not be repeated for credit.

EARTH 140. Climate and the Media

High school science highly recommended. Enrollment restricted to first-year students, including those with sophomore standing. (3). (NS). (BS). May not be repeated for credit.

EARTH 142. From Stars to Stones

High school math and science. Enrollment restricted to first-year students, including those with sophomore standing. (3). (NS). (BS). May not be repeated for credit. Those with credit for GEOSCI 114 or EARTH 114 may only elect EARTH 142 for 2 credits.

EARTH 146. Plate Tectonics

Enrollment restricted to first-year students, including those with sophomore standing. (3). (NS). (BS). May not be repeated for credit. No credit granted to those who have completed three of GEOSCI 105, 107, and 205 or EARTH 105, 107, and 205 (or any combination thereof). Those with credit for one of GEOSCI 105 and 107 or EARTH 105 and 107 (or any combination thereof) may only elect EARTH 146 for two credits. Those with credit for GEOSCI 205 or EARTH 205, or both GEOSCI 105 and 107 or EARTH 105 and 107 (or any combination thereof), may only elect EARTH 146 for one credit.

EARTH 147. Natural Hazards

Enrollment restricted to first-year students, including those with sophomore standing. (3). (NS). (BS). May not be repeated for credit. No credit granted to those who have completed or are enrolled in EARTH/ENVIRON 230. Students who have credit for GEOSCI 107 or 108 or EARTH

107 or 108 will only receive 2 credits for EARTH 147. Those who have credit for both GEOSCI 107 and 108 or EARTH 107 and 108 (or any combination thereof) may elect EARTH 147 for only 1 credit.

EARTH 148. Seminar: Environmental Geology

High school math and science. Enrollment restricted to first-year students, including those with sophomore standing. (3). (NS). (BS). May not be repeated for credit. No credit granted to those who have completed GEOSCI 284 or EARTH 284 or are enrolled in EARTH 284. Those with credit for GEOSCI 109 or EARTH 109 may only elect EARTH 148 for 2 credits.

EARTH 151. The Ice Ages: Past and Present

Enrollment restricted to first-year students, including those with sophomore standing. (3). (NS). (BS). May not be repeated for credit. Those with credit for GEOSCI 104 or EARTH 104 may only elect EARTH 151 for 2 credits.

EARTH 153. Earthlike Planets

High school science and math recommended. Only first-year students (including first-year students with sophomore standing) may pre-register for this course. All other students need permission of instructor. (3). (NS). (BS). May not be repeated for credit. Those with credit for GEOSCI 113 or EARTH 113 may only elect EARTH 153 for 2 credits.

EARTH 154. Ocean Resources

High school science and math recommended. Enrollment restricted to first-year students, including those with sophomore standing. (3). (NS). (BS). May not be repeated for credit.

EARTH 156. Coral Reef Dynamics

(3). (NS). (BS). May not be repeated for credit.

EARTH 171 / BIOLOGY 110 / CLIMATE 171 / ENVIRON 110 / RCNSCI 110. Introduction to Global Change: The Science Behind Sustainability

(4). (NS). (BS). May not be repeated for credit. Satisfies the geography requirement for State of Michigan certification for social studies teachers. F.

EARTH 172 / CLIMATE 172 / ENVIRON 111 / GEOG 111. Climate Change and Sustainability: Environmental Challenges of the 21st Century

(4). (ID). (BS). (QR/2). May not be repeated for credit. Satisfies the geography requirement for State of Michigan certification for social studies teachers. W.

EARTH 178 / CHEM 110 / ENVIRON 109. Science and Sustainable Development

(3). (NS). May not be repeated for credit.

EARTH 201 / GEOG 201. Introduction Physical Geography

(4; 3 in the half-term). (NS). (BS). May not be repeated for credit. No credit granted to those who have completed or are enrolled in GEOSCI 144 or 202 or EARTH 144 or 202 (or any combination thereof). F.

EARTH 202 / ENVIRON 202. Introduction to Earth and Environmental Sciences in the Rockies

(6). (NS). (BS). May not be repeated for credit. No credit granted to those who have completed GEOSCI 201. No credit granted to those who have completed or are enrolled in EARTH 201 or ENVIRON 209 or GEOG 201. Su at Camp Davis, Wyoming. May not be taken pass/fail.

EARTH 205. How the Earth Works: The Dynamic Planet

(2). (NS). (BS). May not be repeated for credit. No credit granted to those who have completed GEOSCI 116, 117, 119, 120, or 146 and no credit granted to those who have completed or are enrolled in EARTH 116, 117, 119, 120, or 146 or ENVIRON 116, 117, 119 or 120. No credit granted to those who have completed both GEOSCI 105 and 107 or EARTH 105 and 107 (or any combination thereof). Those with credit for one of GEOSCI 105 and 107 or EARTH 105 and 107 (or any combination thereof) may only elect EARTH 205 for 1 credit.

EARTH 206 / ENVIRON 206. How the Earth Works: The Water Cycle and Environment

(2). (NS). (BS). May not be repeated for credit. No credit granted to those who have completed or are enrolled in EARTH 277. Those with credit for GEOSCI 109 or EARTH 109 may only elect EARTH 206 or ENVIRON 206 for 1 credit.

EARTH 218 / ENVIRON 228. Introduction to Environmental Science Laboratory

Prior or concurrent enrollment in EARTH 219 or ENVIRON 229. (Prerequisites enforced at registration.) (1). (NS). (BS). May not be repeated for credit. No credit granted for those who have completed or are enrolled in EARTH/ENVIRON 284.

EARTH 219 / ENVIRON 229. Introduction to Environmental Science

(3). (NS). (BS). May not be repeated for credit. No credit granted for those who have completed or are enrolled in EARTH/ENVIRON 202, EARTH/ENVIRON 284.

EARTH 222 / ENVIRON 232. Introductory Oceanography

(3). (NS). (BS). (QR/2). May not be repeated for credit. No credit granted to those who have completed or are enrolled in AOSS 203.

EARTH 223 / ENVIRON 233. Introductory Oceanography, Laboratory

(1). (NS). (BS). (QR/2). May not be repeated for credit.

EARTH 225. Geology of the Great Lakes

(2). (NS). (BS). (QR/2). May not be repeated for credit.

EARTH 230 / ENVIRON 230. Natural and Environmental Hazards: Uncertainties, Risks, and Forecasts

(3). (NS). (BS). May not be repeated for credit.

EARTH 240. Primitive Navigation and Wayfinding in the Natural World

(4). (NS). (BS). (QR/1). May not be repeated for credit.

EARTH 255 / ASTRO 255. Introduction to Astronomy, Geology, and Climate Science

High school mathematics and physics recommended. (3). (NS). (BS). May not be repeated for credit. No credit granted to those who have completed or are enrolled in ASTRO 101 or 115, or EARTH 171(or GEOSCI 171) or AOSS 171 or BIOLOGY 110 or ENSCEN 171 or ENVIRON 110.

EARTH 262 / ENVIRON 262. Plants and People

(3). (NS). (BS). May not be repeated for credit.

EARTH 295. Navigating an Earth and Environmental Sciences Undergraduate Career

Consent of department required. Major in Earth and Environmental Sciences or Minor in Earth Sciences, Environmental Geology, Geology, Oceanography, or Paleontology. (1). May not be repeated for credit.

EARTH 296. Topics in the Earth and Environmental Sciences

(1 - 5). (NS). (BS). May be elected twice for credit.

EARTH 299. Independent Study and Research

Consent of instructor required. (1 - 6). (INDEPENDENT). May be repeated for a maximum of 12 credits. A maximum of one credit of research or independent study (EARTH 299, 489, 490, 494, 498, 499) can be used for electives for the earth and environmental sciences concentration.

EARTH 305. Earth's Surface and Sediments

An introductory geological sciences laboratory course. (4). (NS). (BS). May not be repeated for credit. F.

EARTH 309 / ENVIRON 309. GIS Explorations of the Past, Present, and Future

General computer experience is required, including word processing, spreadsheets, and presentations. (3). (ID). (BS). May not be repeated for credit. No credit granted to those who have completed or are enrolled in ENVIRON 339: GIS Explorations: Past, Present and Future at the University of Michigan Biological Station (UMBS).

EARTH 310 / ENVIRON 310. Toxicology: The Study of Environmental Chemicals and Disease

BIOLOGY 171 or BIOLOGY 195 (AP). (3). (NS). (BS). May not be repeated for credit.

EARTH 313 / EEB 313. Geobiology

One of the following: EARTH 119, BIOLOGY 171, EARTH 131, or CHEM 130. (4). (BS). May not be repeated for credit.

EARTH 314. Geophysics

MATH 115, EARTH 132, or equivalent. (Prerequisites enforced at registration.) MATH 116 or equivalent; PHYSICS 140 or PHYSICS 150. (4). (BS). May not be repeated for credit. May not be taken pass/fail.

EARTH 315. Earth Materials

One of the following: EARTH 131, CHEM 130, CHEM 210, or CHEM 230. (Prerequisites enforced at registration.) (4). (BS). May not be repeated for credit.

EARTH 320 / CLIMATE 320 / SPACE 320. Earth Systems Evolution

MATH 115, MATH 116; (C or better). (3). (BS). May not be repeated for credit.

EARTH 321 / CLIMATE 321 / SPACE 321. Earth Systems Dynamics

CLIMATE/SPACE 320; Preceded or accompanied by MATH 215 and MATH 216. (3). (BS). May not be repeated for credit.

EARTH 323 / CLIMATE 323 / SPACE 323. Earth System Analysis

(4). May not be repeated for credit.

EARTH 325 / ENVIRON 325. Environmental Geochemistry

EARTH/ENVIRON 131 or CHEM 130. (Prerequisites enforced at registration.) (4). (NS). (BS). May not be repeated for credit.

EARTH 331 / ENVIRON 332. Climate and Climate Change

A working knowledge of high school algebra and physical sciences. (4). (NS). (BS). May not be repeated for credit. Those with credit for EARTH 144 may only elect EARTH 331 for 3 credits.

EARTH 333 / ENVIRON 333. The Inexhaustible Seas? Marine Resources and Environmental Issues

EARTH (GEOSCI) 116, 119, 125, 120, 222, or 284. (4). (NS). (BS). May not be repeated for credit. No credit granted to those who have completed GEOSCI 154, and no credit granted to those who have completed or are enrolled in EARTH 154.

EARTH 344 / ENVIRON 344. Sustainable and Fossil Energy: Options and Consequences

Consent of department required. At least one previous course in physical sciences or engineering. (4 in the half-term). (NS). (BS). May not be repeated for credit. Su at Camp Davis, Wyoming. May not be taken pass/fail.

EARTH 350 / CLIMATE 350 / SPACE 350. Atmospheric Thermodynamics

MATH 216 or 256 or 286 or 316; (C or better, No OP/F). (Prerequisites enforced at registration.) May not be repeated for credit.

EARTH 351. Earth Structure

One introductory geological sciences laboratory course. (4). (NS). (BS). May not be repeated for credit. No credit granted to those who have completed or are enrolled in EARTH 451 or GEOSCI 451. W.

EARTH 352. Magmatism, Metamorphism, and Plate Tectonics

Introductory Earth Science [EARTH 119&118 or 116 or 120, or ENVIRON 119&118 or 116] AND [EARTH/ENVIRON 131 or CHEM 130]. (Prerequisites enforced at registration.) EARTH (GEOSCI) 315. (4). (BS). May not be repeated for credit. No credit granted to those who have completed or are enrolled in EARTH 412.

EARTH 370 / SPACE 370. Solar-Terrestrial Relations

MATH 216 and PHYSICS 240. (4). May not be repeated for credit.

EARTH 380 / ENVIRON 380. Natural Resources, Economics, and the Environment

No previous courses in Geology or other sciences are required. (4; 3 - 4 in the half-term). (NS). (BS). (QR/2). May not be repeated for credit.

EARTH 381 / CLIMATE 380 / SPACE 380. Introduction to Atmospheric Radiation

MATH 216 or 256 or 286 or 316; (C or better, No OP/F). (Prerequisites enforced at registration.) May not be repeated for credit.

EARTH 396. Topics in the Earth and Environmental Sciences

(1 - 5). (NS). (BS). May be elected twice for credit.

EARTH 401 / CLIMATE 401. Geophysical Fluid Dynamics

CLIMATE 323, SPACE 323, or EARTH 323 (or GEOSCI 323); MATH 215 and 216 and PHYSICS 240. (3). May not be repeated for credit.

EARTH 405. Ocean Biogeochemistry

EARTH 219 or 222, and EARTH 325 or instructor permission or graduate standing. (Prerequisites enforced at registration.) (3). (BS). May not be repeated for credit.

EARTH 408 / ENVIRON 403. Introduction to GIS in the Earth Sciences

An introductory geology or environmental sciences course (EARTH 116, 119, 120, 201, 202, 219 or 284) and one math course or a statistics course (MATH 115, 116, 120, 121, 156, 175, 176, 185, 186, 295, 296, STATS 150, 180, 250, 280). (Prerequisites enforced at registration.) Although previous GIS experience is not required, students are expected to be familiar with desktop and mobile computing, and to be comfortable with at least one quantitative software program (Matlab, Excel, Mathematica, or R, as examples). (3). (BS). May not be repeated for credit.

EARTH 409 / CLIMATE 410. Earth System Modeling

CLIMATE 320, CLIMATE 321, SPACE 320, SPACE 321. (4). (BS). May not be repeated for credit.

EARTH 411 / CLIMATE 411. Cloud and Precipitation Processes

CLIMATE 350, SPACE 350, MATH 216. (3). May not be repeated for credit.

EARTH 413. Geomicrobiology: How Microorganisms Shape Earth and Environment

[EARTH/ENVIRON 131 or CHEM 130] AND [EARTH 313 and EARTH 325] or graduate standing or permission of instructor. (Prerequisites enforced at registration.) (4). (BS). May not be repeated for credit. Rackham credit requires additional work.

EARTH 414 / CLIMATE 414. Weather Systems

CLIMATE 350, SPACE 350, CLIMATE 401 or CLIMATE 551. (3). May not be repeated for credit.

EARTH 418. Paleontology
An introductory course in Geology (EARTH 116, 119, 120 or 205/206/118) or BIOLOGY 171 or 172. (3). (BS). May not be repeated for credit. F.

EARTH 419. Paleontology Laboratory
Prior or concurrent enrollment in EARTH (GEOSCI) 418. (1). (BS). May not be repeated for credit. F.

EARTH 421 / CLIMATE 421 / ENVIRON 426. Introduction of Physical Oceanography
MATH 115 and 116, and an introductory science course. (3). (BS). May not be repeated for credit. Rackham credit requires additional work.

EARTH 422. Principles of Geochemistry
[EARTH 305, 315, 352] and [EARTH 131 or CHEM 125/126/130]. (3). (BS). May not be repeated for credit. W.

EARTH 427 / ENVIRON 437. Environmental and Technological Applications of Mineralogy
EARTH (GEOSCI) 315 or comparable courses in the solid-state. (3). (BS). May not be repeated for credit.

EARTH 432. Plant Paleobiology
BIOLOGY 171 or GEOSCI 116, or 119, or 120, or 205/206, or graduate standing. (Prerequisites enforced at registration.) (4). (BS). May not be repeated for credit. Rackham credit requires additional work.

EARTH 436. Field Studies in Stratigraphy, Paleontology, and Sedimentology
Permission of instructor. (1 - 4). (BS). May be repeated for credit.

EARTH 437. Vertebrate Paleontology and Evolution
EARTH (GEOSCI) 125 or BIOLOGY 162 or 171 or 172. (4). (BS). May not be repeated for credit.

EARTH 440. Geological Field Methods
EARTH 305 and 351. (Prerequisites enforced at registration.) (6). (BS). May not be repeated for credit. Satisfies the Earth and Environmental Sciences concentration Field Experience requirement. Su at Camp Davis, Wyoming. May not be taken pass/fail. Rackham credit requires additional work.

EARTH 442 / ENVIRON 442. Earth Surface Processes and Soils
MATH 115 and (EARTH 131 or CHEM 130). (4). (BS). May not be repeated for credit. F.

EARTH 444. Analytical Paleobiology
Completion of an introductory paleontology course such as EARTH 418, or evolutionary biology such as EEB 390. (4). (BS). May not be repeated for credit. Rackham credit requires additional work.

EARTH 445 / EEB 445. Biogeography and Conservation
BIOLOGY 171, (172 or 174) & 173; or BIOLOGY 192 & 173; or BIOLOGY 195 & 173. (3). (BS). May not be repeated for credit.

EARTH 446 / ENVIRON 446. Paleoclimatology
MATH 115 and 116 and EARTH 305, or permission of instructor. (4). (BS). May not be repeated for credit. Rackham credit requires additional work.

EARTH 449. Marine Geology
EARTH (GEOSCI) 222/223 or introductory physical geology (EARTH (GEOSCI) 116, 117, 120 or 205/206/118). (3). (BS). May not be repeated for credit.

EARTH 450 / ENVIRON 450. Ecosystem Science in the Rockies
Introductory Geology [EARTH 119&118 or 116 or 120; or ENVIRON 119&118 or 116] AND BOTH EARTH/EEB 313 AND EARTH/ENVIRON 325. (Prerequisites enforced at registration.) (6 in the half-term). (NS). (BS). May not be repeated for credit.

EARTH 451. Introduction to Structure and Tectonics
Permission of Instructor. (3). (BS). May not be repeated for credit. No credit granted to those who have completed or are enrolled in GEOSCI 351.

EARTH 452. Paleocceanography
EARTH (GEOSCI) 117/119, 222. (3). (BS). May not be repeated for credit. Rackham credit requires additional work.

EARTH 454 / CLIMATE 440. Meteorological Analysis Laboratory
CLIMATE 350, SPACE 350, CLIMATE 401. (4). May not be repeated for credit.

EARTH 457 / CLIMATE 451 / ENSCEN 451. Atmospheric Dynamics I
CLIMATE 401 or MATH 450. (4). (BS). May not be repeated for credit.

EARTH 467. Stratigraphy and Basin Analysis
EARTH 305 and an introductory geoscience course [one of: EARTH 116 or ENVIRON 116; or EARTH 119 and 118, or ENVIRON 119 and 118; or EARTH 120 or ENVIRON 120 or EARTH 201 or GEOG 201 or ENVIRON 209; or EARTH 205 and 206 (or ENVIRON 206) and 207]; or graduate standing. (Prerequisites enforced at registration.) EARTH 310, and 351. (4). (BS). May not be repeated for credit. F.

EARTH 468. Data Analysis, Inference, and Estimation
MATH 115 or graduate standing. (Prerequisites enforced at registration.) Knowledge of, or willingness to learn, a programming language (e.g., Matlab, Mathematica). (3). (BS). (QR/2). May not be repeated for credit.

EARTH 474 / CLIMATE 474. Ice Sheets, Glaciers and Climate Change
MATH 115 and 116. (3). May not be repeated for credit.

EARTH 478. Geochemistry of Natural Waters
EARTH 131 or CHEM 130. (Prerequisites enforced at registration.) EARTH 325. (4). (BS). May not be repeated for credit.

EARTH 480. Isotopes in Earth and Environmental Sciences
EARTH 412, 415, 478, 479, 422, or another geochemistry course. (3). (BS). May not be repeated for credit. Rackham credit requires additional work.

EARTH 483. Geophysics: Seismology
Prior or concurrent election of MATH 215 and PHYSICS 240 (or 260). (4). (BS). May not be repeated for credit.

EARTH 484. Environmental Geophysics
Prior or concurrent election of MATH 115. (4). (BS). May not be repeated for credit. Rackham credit requires additional work.

EARTH 485. Telling Time: Geochronology and the Story of Earth
An intro geology class (EARTH 116 or EARTH 119 or EARTH 120) and EARTH 315; or graduate standing. (Prerequisites enforced at registration.) (4). (BS). May not be repeated for credit. Rackham credit requires additional work.

EARTH 489. Geological Sciences Honors
Consent of instructor required. (1 - 6). (BS). (INDEPENDENT). May be repeated for a maximum of 6 credits. A maximum of one credit of

research or independent study (EARTH 299, 489, 490, 494, 498, 499) can be used for electives for the earth and environmental sciences concentration.

EARTH 490. Geological Sciences Honors

Consent of instructor required. (1 - 6). (BS). (INDEPENDENT). May be repeated for a maximum of 6 credits. Continuing Course. Y grade can be reported at end of the first-term to indicate work in progress. At the end of the second term of EARTH 490, the final grade is posted for both term's elections. F, W, Sp. A maximum of one credit of research or independent study (EARTH 299, 489, 490, 494, 498, 499) can be used for electives for the earth and environmental sciences concentration.

EARTH 494. Experiential Learning in the Earth Sciences

Consent of instructor required. Junior or senior standing; and one of the following: EARTH (GEOSCI) 116, 119 and 118, 120, 201, 205/206/207, 222 and 223, 284 or ENVIRON 116, 119 and 118, 120, 209, 232 and 233, 284 or GEOG 201. (1 - 4). (BS). (EXPERIENTIAL). May be repeated for a maximum of 8 credits. A maximum of one credit of research or independent study (EARTH 299, 489, 490, 494, 498, 499) can be used for electives for the earth and environmental sciences concentration. Offered mandatory credit/no credit. Rackham credit requires additional work.

EARTH 495. Methods in Research for Natural Sciences

Consent of department required. (1). (BS). May not be repeated for credit. Offered mandatory credit/no credit. Rackham credit requires additional work.

EARTH 496. Special Topics in the Earth and Environmental Sciences

(1 - 5). (BS). May be elected three times for credit. May be elected more than once in the same term. Rackham credit requires additional work.

EARTH 498. Research or Special Work

Consent of instructor required. (1 - 6). (INDEPENDENT). May be repeated for a maximum of 6 credits. A maximum of one credit of research or independent study (EARTH 299, 489, 490, 494, 498, 499) can be used for electives for the earth and environmental sciences concentration.

EARTH 499. Research or Special Work

Consent of instructor required. (1 - 6). (INDEPENDENT). May be repeated for a maximum of 6 credits. A maximum of one credit of research or independent study (EARTH 299, 489, 490, 494, 498, 499) can be used for electives for the earth and environmental sciences concentration. F, W, Sp/Su, Sp, Su.

EARTH 531. Seminar in Geologic Problems

Permission of instructor. (1 - 3). (BS). May be elected three times for credit. May be elected more than once in the same term. Offered mandatory credit/no credit. Rackham credit requires additional work.

EARTH 532. Seminar in Climate, Tectonics, and Surface Processes

Permission of instructor. (1 - 2). (BS). May be repeated for credit. May be elected more than once in the same term.

EARTH 534. Seminar in Geophysics, Tectonics, or Structure

Permission of instructor. (1 - 2). (BS). May be repeated for credit. May be elected more than once in the same term.

EARTH 535. Seminar in Mineralogy, Petrology, or Geochemistry

Permission of instructor. (1 - 2). (BS). May be repeated for credit. May be elected more than once in the same term.

EARTH 536. Seminar in Paleobiology

Permission of instructor. (1). (BS). May be repeated for a maximum of 5 credits. May be elected more than once in the same term.

EARTH 581 / CEE 581. Aquatic Chemistry

(CHEM 130; C- or better, and Senior Standing) or Graduate Standing. (Prerequisites enforced at registration.) CHEM 130 and senior or graduate standing. (BS). May not be repeated for credit.

LSA Ecology & Evolutionary Biology

Courses In Ecology and Evolutionary Biology (EEB)

EEB 300. Undergraduate Research

Consent of instructor required. Eight credits of biology and 3.0 grade point average in science; permission of faculty member in EEB. (1 - 3). (BS). (INDEPENDENT). May be repeated for a maximum of 9 credits. Continuing Course. Y grade can be reported at end of the first-term to indicate work in progress. At the end of the second term (EEB 300 or 400), the final grade is posted for both term's elections. Three credits of independent research must be completed in one term to satisfy a Biology laboratory requirement. A maximum of three credits of any independent study course may count toward the Biology concentration programs.

EEB 301. Active Learning Assistant

Consent of instructor required. BIOLOGY 171, 172/174, and 173, or BIOLOGY 192 and 173; or BIOLOGY 195 and 173; as well as experience in the target course subject matter. (2). (EXPERIENTIAL). (INDEPENDENT). May be elected four times for credit. 8 credits max allowed between EEB 301 and MCDB 301. Offered mandatory credit/no credit.

EEB 302. Teaching Experience for Undergraduates

Consent of instructor required. (1 - 3). (EXPERIENTIAL). May be elected twice for credit.

EEB 303. Topics in Biology

Recommended prerequisites will be established at the class level by the section instructors. (1 - 4). (NS). (BS). May be repeated for a maximum of 6 credits. May be elected more than once in the same term.

EEB 313 / EARTH 313. Geobiology

One of the following: EARTH 119, BIOLOGY 171, EARTH 131, or CHEM 130. (4). (BS). May not be repeated for credit.

EEB 315 / ENVIRON 315. The Ecology and Evolution of Infectious Diseases

BIOLOGY 100; or BIOLOGY 171, (172 or 174) & 173; or BIOLOGY 195 & 173. (3). (NS). (BS). May not be repeated for credit.

EEB 321 / ENVIRON 331. Rivers, Lakes, and Wetlands: Introduction to Aquatic Ecosystems (UMBS)

Consent of department required. One course in BIOLOGY. (3 in the half-term). (NS). (BS). May not be repeated for credit. No credit granted to those who have completed or are enrolled in ENVIRON 311/EEB 320 (Rivers, Lakes and Wetlands).

EEB 325 / CMLXSYS 325. Memes, Measles and Misinformation

(3). (MSA). (BS). (QR/1). May not be repeated for credit.

EEB 330. Biology of Birds (UMBS)

Two college-level courses in biology. (3 in the half-term). (BS). May not be repeated for credit. Satisfies a Biology laboratory requirement.

EEB 348 / ENVIRON 348. Forest Ecosystems (UMBS)

Consent of department required. *BIOLOGY 171, (172 or 174) & 173; or BIOLOGY 192 & 173; or BIOLOGY 195 & 173. (3 in the half-term). (NS). (BS). May not be repeated for credit. Su at Biological Station.*

EEB 349. Coastal Ecology and Sustainability

(3). (NS). (BS). May not be repeated for credit.

EEB 362 / ANTHRIBIO 362 / ENVIRON 362. Primate Evolutionary Ecology

An introductory course on primates, ecology, or conservation biology is advised. No quantitative or statistical training is required. (4). (NS). (BS). May not be repeated for credit.

EEB 372 / ENVIRON 372. General Ecology Laboratory

BIOLOGY 171, (172 or 174) & 173; or BIOLOGY 195 & 173; AND concurrent or prior enrollment in BIOLOGY 281/ENVIRON 281. (3). (NS). (BS). May not be repeated for credit.

EEB 373 / ENVIRON 373. General Ecology Lab (UMBS)

BIOLOGY 171, (172 or 174) and 173; or BIOLOGY 195 and 173; AND a laboratory course in CHEM. (3 in the half-term). (NS). (BS). May not be repeated for credit. No credit granted to those who have completed or are enrolled in EEB/ENVIRON 372.

EEB 380. Oceanography: Marine Ecology

BIOLOGY 171, (172 or 174) & 173; or BIOLOGY 192 & 173; or BIOLOGY 195 & 173; and one term of college CHEM or PHYSICS. (3). (BS). May not be repeated for credit.

EEB 390. Evolution

BIOLOGY 171 or (195 & 173); prior or concurrent enrollment in BIOLOGY 305. (3). (BS). May not be repeated for credit. No credit granted to those who have completed or are enrolled in EEB 391 (Quantitative Evolution) or EEB 392 (Evolution at UMBS).

EEB 391. Evolutionary Processes and Macroevolution

(MATH 115, 120, or 185) and (BIOLOGY 171, 192, or 195). (Prerequisites enforced at registration.) Familiarity with statistics and probability theory as well as prior exposure to an interpreted computer language for mathematics, graphics, and/or statistics (e.g., R, Python, Mathematica) is advised. (4). (BS). May not be repeated for credit. No credit granted to those who have completed or are enrolled in EEB 392 (Evolution at UMBS).

EEB 392. Evolution (UMBS)

BIOLOGY 171 or (195 & 173); prior or concurrent enrollment in BIOLOGY 305. (3 in the half-term). (NS). (BS). May not be repeated for credit. No credit granted to those who have completed or are enrolled in EEB 391 (Quantitative Evolution) or EEB 390 (Evolution). This course is taught at the University of Michigan Biological Field Station (UMBS) in the spring and/or summer terms only.

EEB 400. Advanced Research

Consent of instructor required. 12 credits of BIOLOGY, 3.0 average in science, and permission of instructor in EEB. (1 - 3). (BS). (INDEPENDENT). May be repeated for a maximum of 9 credits. Continuing Course. Y grade can be reported at end of the first-term to indicate work in progress. At the end of the second term, the final grade is posted for both term's elections. Three credits of independent research must be completed in one term to satisfy a Biology laboratory requirement. A maximum of three credits of any independent study course may count toward the Biology concentration programs.

EEB 401. Advanced Topics in Biology

Intended for senior majors. The prerequisites will be set by the instructor as appropriate for each section. (1 - 4). (BS). May be repeated for a maximum of 12 credits. May be elected more than once in the same term.

EEB 405. Biological Station Special Topics

College courses in biology, chemistry, and ecology. (1 - 5 in the half-term). (BS). May be repeated for a maximum of 20 credits. May be elected more than once in the same term. Rackham credit requires additional work.

EEB 410. EEB Capstone Seminar

Senior-level EEB majors only. (Prerequisites enforced at registration.) BIOLOGY 281 and 390. (3). (BS). May not be repeated for credit.

EEB 413. Evolutionary Foundations of Medicine

BIOLOGY 171, 172 or 174, & 173; or BIOLOGY 192 & 173; or BIOLOGY 195 & 173. (Prerequisites enforced at registration.) EEB 390, BIOLOGY 305. (3). (BS). May not be repeated for credit. Rackham credit requires additional work.

EEB 420. Plant Evolution

BIOLOGY 171, (172 or 174) & 173; or BIOLOGY 195 & 173; AND BIOLOGY 230 or equivalent. (3). (BS). May not be repeated for credit.

EEB 429. Introduction to Statistical Model Building in R

BIOLOGY 171 [or BIOLOGY 172 or BIOLOGY 174] and BIOLOGY 173; or BIOLOGY 192 and BIOLOGY 173; or BIOLOGY 195 and BIOLOGY 173; or graduate standing. (Prerequisites enforced at registration.) STATS 250 or BIOLOGY 202 or BIOLOGY 131/BIOPHYS 117/COMPFOR 131. (4). (BS). (QR/1). May not be repeated for credit.

EEB 433 / EAS 433 / ENVIRON 433. Ornithology

BIOLOGY 171, 172 or 174, and 173, or BIOLOGY 192 and 173; or BIOLOGY 195 & 173. (4). (BS). May not be repeated for credit. Satisfies a Biology laboratory requirement.

EEB 436 / EAS 436 / ENVIRON 436. Woody Plants: Biology and Identification

BIOLOGY 171 or equivalent. (4). (BS). May not be repeated for credit. Rackham credit requires additional work.

EEB 440 / EAS 422 / ENVIRON 422. Biology of Fishes

BIOLOGY 162 or 171, 172 and 173. (3). (BS). May not be repeated for credit. F.

EEB 441 / EAS 423 / ENVIRON 423. The Biology of Fishes Laboratory

BIOLOGY 162 or 171, 172 and 173. (1). (BS). May not be repeated for credit. Satisfies a Biology laboratory requirement.

EEB 442. Biology of Insects

BIOLOGY 171, (172 or 174), & 173; or BIOLOGY 192 & 173; or BIOLOGY 195 & 173. (3). (BS). May not be repeated for credit. No credit granted to those who have completed or are currently enrolled in EEB 443 (Biology of Insects at UMBS).

EEB 445 / EARTH 445. Biogeography and Conservation

BIOLOGY 171, (172 or 174) & 173; or BIOLOGY 192 & 173; or BIOLOGY 195 & 173. (3). (BS). May not be repeated for credit.

EEB 446. Microbial Ecology

Introductory Microbiology (BIOLOGY 207 or the equivalent) and one 300-level or above biology course [Microbial diversity (EEB 470) and general ecology (EEB 281/381) are recommended.]. (3). (BS). May not be repeated for credit. For the Microbiology concentration, this course counts as a Group 1 Specified Elective.

EEB 450. Biology of Amphibians and Reptiles

BIOLOGY 171, (172 or 174) & 173; or BIOLOGY 195 & 173. (4). (BS). May not be repeated for credit. Satisfies a Biology laboratory requirement.

EEB 451 / EAS 451 / ENVIRON 451. Biology of Mammals

BIOLOGY 171, (172 or 174) & 173; or BIOLOGY 192 & 173; or BIOLOGY 195 & 173. (4). (BS). May not be repeated for credit. F. (Offered in alternate years). Satisfies a Biology laboratory requirement.

EEB 453. Field Mammalogy (UMBS)

Two laboratory courses in BIOLOGY. (3 in the half-term). (BS). May not be repeated for credit. (Offered in even years at the Biological Station). Satisfies a Biology laboratory requirement.

EEB 455. Ethnobotany (UMBS)

Two college-level courses in BIOLOGY. (3 in the half-term). (BS). May not be repeated for credit. Satisfies a Biology laboratory requirement.

EEB 466 / CMPLXSYS 466 / MATH 466. Mathematical Ecology

MATH 217, 417, or 419; MATH 256, 286, or 316; and MATH 450 or 451. (3). May not be repeated for credit. Rackham credit requires additional work.

EEB 468. Biology of Fungi

BIOLOGY 305, EEB 390, or BIOLOGY 281 strongly suggested. (4). (BS). May not be repeated for credit.

EEB 476 / EAS 476 / ENVIRON 476. Ecosystem Ecology

General Ecology and a 400-level course in Aquatic or Terrestrial Ecology. (3). (BS). May not be repeated for credit. W.

EEB 480. Model-based Statistical Inference for Ecology

Senior natural science concentrator or Graduate student. (4). (BS). May not be repeated for credit.

EEB 482. Freshwater Ecosystems: Limnology (UMBS)

Sophomores and above. (Prerequisites enforced at registration.) One course in each of the following: Ecology, Chemistry, and Physics. (3 in the half-term). (BS). May not be repeated for credit. No credit granted to those who are enrolled in or have completed BIOLOGY 482, EEB 483, or EEB 484.

EEB 483. Freshwater Ecosystems: Limnology

Sophomores and above. (Prerequisites enforced at registration.) One course in each of the following: Ecology, Chemistry, and Physics. (3). (BS). (QR/1). May not be repeated for credit. No credit granted to those who are enrolled in or have completed BIOLOGY/EEB 482. W.

EEB 486. Field Studies of Freshwater Fishes (UMBS)

Two college-level courses in BIOLOGY and/or EEB. (3 in the half-term). (BS). May not be repeated for credit. (Offered in odd years at the Biological Station). Satisfies a Biology laboratory requirement.

EEB 487 / EAS 409 / ENVIRON 409. Ecology of Fishes

BIOLOGY 162 or 171, 172 and 173. (3 - 4). (BS). May not be repeated for credit. W. (Lectures: 3 credits; lectures and lab: 4 credits). Satisfies a Biology laboratory requirement only if the student signs up for four credits.

EEB 489 / EAS 430 / ENVIRON 430. Soil Ecology

BIOLOGY 162 or 171 and 172 and 173, and General Chemistry. Concurrent enrollment in ENVIRON 436/EEB 436 and ENVIRON 435/EAS 435 highly recommended. (3). (BS). May not be repeated for credit. F. Satisfies a Biology laboratory requirement.

EEB 490. Evolution at the Population Level

MATH 115. (Prerequisites enforced at registration.) BIOLOGY 305. (3). (BS). May not be repeated for credit. May be used to satisfy an elective requirement in several biology majors and minors.

EEB 492. Behavioral Ecology

BIOLOGY 172, 174, or 192; or BIOLOGY 195 & 173. Or Graduate Student Standing. (Prerequisites enforced at registration.) EEB 390 (Evolution). (3). (BS). May not be repeated for credit. No credit granted to students who have completed or are currently enrolled in EEB 493 (Behavioral Ecology at UMBS), or NRE/ENVIRON 415/EEB 424. (Offered in odd years at the Biological Station).

EEB 494 / MCDB 494. Teaching College Science

Consent of department required. Science concentrators having completed a range of courses, such as BIOLOGY 171, 172 and 173; BIOLOGY 225, 281, 305 or EEB 390; CHEM 130, 210 or 211; PHYSICS 140 or 160; or EARTH 119. (2). (BS). May not be repeated for credit.

EEB 497. Complex Systems in Ecology

MATH 115, 120, or 185 and BIOLOGY 171, 192, or 195. (Prerequisites enforced at registration.) . (3). (BS). May not be repeated for credit. Rackham credit requires additional work.

EEB 498. The Ecology of Agroecosystems

A course in Ecology. (3). (BS). May not be repeated for credit. F.

EEB 499 / MCDB 499. Responsible Conduct of Research and Scholarship in Biology

Prior or concurrent enrollment in MCDB or EEB 300. (1). (BS). May not be repeated for credit. Offered mandatory credit/no credit.

EEB 556. Field Botany of Northern Michigan (UMBS)

A course in Systematic Botany (EEB 459). (3 in the half-term). (BS). May not be repeated for credit. Satisfies a Biology laboratory requirement.

LSA Economics**Courses In Economics (ECON)****ECON 101. Principles of Economics I**

High school algebra and geometry. (4; 3 in the half-term). (SS). (QR/2). May not be repeated for credit. ECON 101 and 102 are required as prerequisites to an Economics major and to upper-level courses in Economics. F, W, Sp/Su.

ECON 102. Principles of Economics II

ECON 101. (4; 3 in the half-term). (SS). (QR/2). May not be repeated for credit. ECON 101 and 102 are required as prerequisites to an Economics major and to upper-level courses in Economics. ECON 102 should not be taken without having taken ECON 101. F, W, Sp, Su.

ECON 108. Introductory Microeconomics Workshop

Concurrent enrollment in ECON 101. (Prerequisites enforced at registration.) First-year standing. (1). (SS). May be elected twice for credit. May be elected more than once in the same term. Offered mandatory credit/no credit.

ECON 208. Intermediate Microeconomics Workshop

ECON 101 (concurrent or previous). (1). May be elected twice for credit. May be elected more than once in the same term. Offered mandatory credit/no credit.

ECON 210. Math for Economics

ECON 101 AND MATH 115 OR Math 120 (AP exam AB 5 or BC 4; IB HL 6), or Math 121. (Prerequisites enforced at registration.) (3). May not be repeated for credit.

ECON 251. Introduction to Statistics and Econometrics II

With a minimum grade of C, ECON 210, MATH 115, 116, 121, 156, 185, 186, 205, 215, 255, 256, 285, 295, or 296; AND with a minimum grade of C-, either ECON 249, STATS 206, STATS 250, STATS 280, ECON 451, IOE 265, STATS 412, or STATS 426. (Prerequisites enforced at registration.) (4). (BS). (QR/1). May not be repeated for credit. No credit granted to those who have completed or are enrolled in ECON 452 or ECON 454. Students may take only one of the following courses for credit towards graduation: ECON 251, ECON 452, and ECON 454.

ECON 258. Topics in Applied Data Analysis

ECON 101 and ECON 102 with a C or better, and Stats 206, or STATS 250, or Stats 280, or Stats 426, or ECON 451, or ECON 453 with a C- or better. (Prerequisites enforced at registration.) (3). (BS). May be repeated for a maximum of 6 credits. May be elected more than once in the same term.

ECON 259. Excel in Economics and Business Analytics

ECON 101 and ECON 102 with a C or better. (Prerequisites enforced at registration.) (3). May not be repeated for credit.

ECON 310. Money and Banking

ECON 102 (completed with a minimum grade of C or better) or ECON 402 (completed with a C- or better). (Prerequisites enforced at registration.) Students with first year or sophomore standing should complete ECON 102 (with a C or higher) before taking ECON 402. (3). (SS). May not be repeated for credit.

ECON 320. Survey of Labor Economics

ECON 101 (completed with a minimum grade of C or better) or ECON 401 (completed with a C- or better). (Prerequisites enforced at registration.) ECON 102 (unless ECON 101 completed with B or higher). Students with first year or sophomore standing should complete ECON 101 (with a C or higher) before taking ECON 401. (3). (SS). May not be repeated for credit.

ECON 323. Economics and Gender

ECON 101 (completed with a minimum grade of C or better) or ECON 401 (completed with a C- or better). (Prerequisites enforced at registration.) ECON 102 (unless ECON 101 completed with B or higher). Students with first year or sophomore standing should complete ECON 101 (with a C or higher) before taking ECON 401. (3). (SS). May not be repeated for credit.

ECON 325. Economics of Education

ECON 101 completed with a minimum grade of C or better or ECON 401 (completed with a C- or better). (Prerequisites enforced at registration.) ECON 102 (unless ECON 101 completed with a B or higher) and STATS 250. Students with first year or sophomore standing should complete ECON 101 (with a C or higher) before taking ECON 401. (3). (SS). May not be repeated for credit. No credit in ECON 395: TopicID #12, The Economics of Education (taken prior to Fall 2014).

ECON 330. American Industries

ECON 101 (completed with a minimum grade of C or better) or ECON 401 with a C- or better. (Prerequisites enforced at registration.) ECON 102 (unless ECON 101 completed with B or higher). Students with first year or sophomore standing should complete ECON 101 (with a C or higher) before taking ECON 401. (4). (SS). May not be repeated for credit.

ECON 340. International Economics

ECON 101 (completed with a minimum grade of C or better) or ECON 401 (completed with a C- or better). (Prerequisites enforced at registration.) ECON 102 (unless ECON 101 completed with B or higher). Students with first year or sophomore standing should complete ECON 101 (with a C or higher) before taking ECON 401. (3). (SS). May not be repeated for credit.

ECON 370 / ENVIRON 375. Environmental and Resource Economics

ECON 101. (Prerequisites enforced at registration.) (3). (SS). May not be repeated for credit. No credit granted to those who have completed or are enrolled in ECON 471 or 472, or NRE 571 or 583.

ECON 380. Public Finance

ECON 101 (completed with a minimum grade of C or better) or ECON 401 (completed with a C- or better). (Prerequisites enforced at registration.) ECON 102 (unless ECON 101 completed with B or higher). Students with first year or sophomore standing should complete ECON 101 (with a C or higher) before taking ECON 401. (3). (SS). May not be repeated for credit.

ECON 395. Topics in Microeconomics and Microeconomic Policy

ECON 101 (completed with a minimum grade of C or better) or ECON 401 (completed with a minimum grade of C-). (Prerequisites enforced at registration.) ECON 102 (unless ECON 101 completed with B or higher). Students with first year or sophomore standing should complete ECON 101 (with a C or higher) before taking ECON 401. (1 - 4). May be repeated for a maximum of 8 credits. May be elected more than once in the same term.

ECON 396. Topics in Macroeconomics and Macroeconomic Policy

ECON 102 (completed with a minimum grade of C or better) or ECON 402 (completed with a minimum of C-). (Prerequisites enforced at registration.) Students with first year or sophomore standing should complete ECON 102 (with a C or higher) before taking ECON 402. (1 - 4). May be repeated for a maximum of 6 credits. May be elected more than once in the same term.

ECON 398. Strategy

ECON 101 (completed with a minimum grade of C or better). (Prerequisites enforced at registration.) ECON 102 (unless ECON 101 completed with B or higher). (4). (SS). (BS). May not be repeated for credit. No credit granted to those who have completed or are enrolled in ECON 409 or RCSSCI/SOC 222.

ECON 401. Intermediate Microeconomic Theory

ECON 210, MATH 115, 116, 121, 156, 176, 185, 186, 205, 215, 285, 295, or 296; with a grade of C or better. (Prerequisites enforced at registration.) ECON 101 and 102. (4). (BS). (QR/1). May not be repeated for credit. F, W, Sp. Rackham credit requires additional work.

ECON 402. Intermediate Macroeconomic Theory

ECON 210, MATH 115, 116, 121, 156, 176, 185, 186, 205, 215, 285, 295, or 296, (completed with a minimum grade of C or better). (Prerequisites enforced at registration.) It is strongly recommended that students take ECON 401 before 402. (4). (BS). (QR/1). May not be repeated for credit. F, W, Su. Rackham credit requires additional work.

ECON 407. Behavioral Economics

ECON 401 with a C- or better, or graduate standing. (Prerequisites enforced at registration.) STATS 206, 250, 280, or 426; or ECON 451. (3). May not be repeated for credit.

ECON 408. Experiments in Economics

ECON 401, with a C- or better AND STATS 250, or STATS 280, or STATS 206/DATASCI 101, or STATS 426, or ECON 451, or ECON 453 completed with a C- or better. (Prerequisites enforced at registration.) ECON 251, or 452, or 454 are strongly recommended. They can also be taken concurrently with ECON 408. Some basic multivariate calculus may be used in this class. (4). May not be repeated for credit.

ECON 409. Game Theory

ECON 401 (completed with a minimum grade of C- or better); OR Graduate Standing. (Prerequisites enforced at registration.) MATH 215. (4). (BS). May not be repeated for credit.

ECON 412. Topics in Macroeconomics

ECON 402 with a grade of at least C-; or Graduate standing. (Prerequisites enforced at registration.) (3 - 4). May be elected twice for credit. May be elected more than once in the same term. Rackham credit requires additional work.

ECON 414. Growth Theory

ECON 401 and 402 with a grade of at least C-; or Graduate standing. (Prerequisites enforced at registration.) (4). May not be repeated for credit.

ECON 420. Topics in Labor Economics

ECON 401 with a C- or better. (Prerequisites enforced at registration.) (3 - 4). May be elected twice for credit. May be elected more than once in the same term. Rackham credit requires additional work.

ECON 421. Labor Economics I

ECON 401 with a grade of at least C-; or Graduate standing. (Prerequisites enforced at registration.) (3). May not be repeated for credit. Rackham credit requires additional work.

ECON 427. Crime, Economics and Public Policy

ECON 401 (completed with a minimum grade of C- or better); OR Graduate standing. (Prerequisites enforced at registration.) STATS 250, or ECON 249, or STATS 426, or ECON 451. (3). May not be repeated for credit. Rackham credit requires additional work.

ECON 431. Industrial Organization and Performance

ECON 401 with a grade of at least C-; or Graduate standing. (Prerequisites enforced at registration.) (3). May not be repeated for credit. Rackham credit requires additional work.

ECON 432. Government Regulation of Industry

ECON 401 with a grade of at least C-; or Graduate standing. (Prerequisites enforced at registration.) (3 - 4). May not be repeated for credit. W. Rackham credit requires additional work.

ECON 435. Financial Economics

ECON 401 (completed with a minimum grade of C- or better); or Graduate standing. (Prerequisites enforced at registration.) STATS 250 or ECON 451. (4). May not be repeated for credit. Rackham credit requires additional work.

ECON 441. International Trade Theory

ECON 401 with a grade of at least C-; or Graduate standing. (Prerequisites enforced at registration.) (3). May not be repeated for credit. Rackham credit requires additional work.

ECON 442. International Finance

ECON 402 with a grade of at least C-; or Graduate standing. (Prerequisites enforced at registration.) (4). May not be repeated for credit. Rackham credit requires additional work.

ECON 444. The European Economy

ECON 401 with a grade of at least C-; or graduate standing. (Prerequisites enforced at registration.) (4). May not be repeated for credit. Rackham credit requires additional work.

ECON 451. Intermediate Introduction to Statistics and Econometrics I

With a minimum grade of C-, MATH 116, 156, 176, 186, 215, 255, 256 or 285. (Prerequisites enforced at registration.) (4). (BS). (QR/I). May not be repeated for credit. No credit granted to those who have completed or are enrolled in ECON 453 or Stats 426. Students may take only two of the following courses for credit towards graduation: STATS 250 or STATS 280 or ECON 249; ECON 451; and ECON 453. May not be included in an Economics minor.

ECON 452. Intermediate Introduction to Statistics and Econometrics II

With a minimum grade of C-, ECON 451 or ECON 453, or STATS 426. (Prerequisites enforced at registration.) (4). (BS). May not be repeated for credit. No credit granted to those who have completed or are enrolled in ECON 454, or ECON 251. Students may take only one of the following courses for credit towards graduation: ECON 251, ECON 452, and ECON 454. One (but only one) of ECON 452 and 454 may be counted toward an Economics minor. Rackham credit requires additional work.

ECON 461. Topics in Economic Development

ECON 401 with a grade of at least C-; or Graduate standing. (Prerequisites enforced at registration.) (3 - 4; 3 in the half-term). May be elected twice for credit. May be elected more than once in the same term. Rackham credit requires additional work.

ECON 462. Economic Development

ECON 401 with a grade of at least C-; or Graduate standing. (Prerequisites enforced at registration.) (3). May not be repeated for credit. Rackham credit requires additional work.

ECON 466. Economics of Population

ECON 401 completed with a minimum grade of C- or better; or graduate standing. (Prerequisites enforced at registration.) (3). May not be repeated for credit. Rackham credit requires additional work.

ECON 481. Government Expenditures

ECON 401 with a grade of at least C-; or Graduate standing. (Prerequisites enforced at registration.) (3). May not be repeated for credit. Rackham credit requires additional work.

ECON 482. Government Revenues

ECON 401 with a grade of at least C-; or Graduate standing. (Prerequisites enforced at registration.) (3). May not be repeated for credit. Rackham credit requires additional work.

ECON 483 / POLSCI 482. Positive Political Economy

ECON 401 with a grade of at least C-; or Graduate standing. (Prerequisites enforced at registration.) (3). May not be repeated for credit.

ECON 485. Law and Economics

ECON 401 with a grade of at least C-; or Graduate standing. (Prerequisites enforced at registration.) (3). May not be repeated for credit. Rackham credit requires additional work.

ECON 487. Urban Economics

ECON 401 (completed with a minimum grade of C- or better); OR Graduate standing. (Prerequisites enforced at registration.) (3). May not be repeated for credit. Rackham credit requires additional work.

ECON 490. Topics in Microeconomics

ECON 401 (completed with a minimum grade of C- or better); OR Graduate standing. (Prerequisites enforced at registration.) STATS 250, or ECON 249, or STATS 426, or ECON 451. Students are not permitted to elect the same topic multiple times. (3 - 4). May be elected four times for credit. May be elected more than once in the same term.

ECON 491. The History of the American Economy

ECON 401 (completed with a minimum grade of C- or better); OR Graduate standing. (Prerequisites enforced at registration.) (3). May not be repeated for credit. Rackham credit requires additional work.

ECON 492. Capitalisms

ECON 401 with a C- or better. (Prerequisites enforced at registration.) (4). May not be repeated for credit. Rackham credit requires additional work.

ECON 494. Topics in Economic History

ECON 401 (completed with a minimum grade of C- or better); or Graduate Standing. (Prerequisites enforced at registration.) (3 - 4). May not be repeated for credit. History concentrators without ECON 401 will need permission to enroll.

ECON 495. Seminar in Economics

ECON 401 and 402, each with a grade of C- or better. (Prerequisites enforced at registration.) ECON 452 or ECON 454. (3). May be repeated for a maximum of 6 credits.

ECON 497. Economics Honors Seminar

(1). May be elected twice for credit. Offered mandatory credit/no credit.

ECON 498. Honors Independent Research

Consent of instructor required. Open only to students admitted to Honors concentration in economics. Permission of instructor. (1 - 4). (INDEPENDENT). May be repeated for a maximum of 8 credits. Continuing Course. Y grade can be reported at end of the first-term to indicate work in progress. At the end of the second term of ECON 498, the final grade is posted for both term's elections.

ECON 499. Independent Research

Consent of instructor required. Written permission of staff member supervising research, and permission of the Economics concentration advisor. (1 - 4). (INDEPENDENT). May be repeated for a maximum of 8 credits. No more than four credits may be used in an Economics concentration program. Rackham credit requires additional work.

LSA English Language & Literature

Courses In English Language and Literature (ENGLISH)

ENGLISH 124. Academic Writing and Literature

(4). (FYWR). May not be repeated for credit.

ENGLISH 125. Writing and Academic Inquiry

(4). (FYWR). May not be repeated for credit. F, W, Sp, Su.

ENGLISH 126. Community-Engaged Writing

(4). (FYWR). May not be repeated for credit.

ENGLISH 140. First-Year Seminar on English Language and Literature

Enrollment restricted to first-year students, including those with sophomore standing. (3). (HU). May not be repeated for credit.

ENGLISH 150. The Art of the Story

(2 - 3). (HU). May not be repeated for credit.

ENGLISH 167. Introduction to Shakespeare

(3). (HU). May not be repeated for credit.

ENGLISH 190. Introduction to English Language and Literature Studies

(1 - 3). (HU). May be repeated for a maximum of 6 credits.

ENGLISH 201. Readings in Multicultural American Literature

(4; 3 in the half-term). (HU). May not be repeated for credit.

ENGLISH 203. Introduction to Language and Rhetoric

(3 - 4; 3 in the half-term). (HU). May be repeated for a maximum of 8 credits.

ENGLISH 212 / WGS 222. Narratives of Girlhood

(3). (HU). May not be repeated for credit.

ENGLISH 214 / WGS 214. Introduction to LGBTQ+ Literatures

(3). (HU). May not be repeated for credit.

ENGLISH 215 / WGS 217. Introduction to Women and Literature

(3 - 4; 3 in the half-term). (HU). May not be repeated for credit.

ENGLISH 216. Introduction to Disability Studies

(3 - 4; 2 - 3 in the half-term). (HU). May not be repeated for credit.

ENGLISH 221. Literature and Writing Outside the Classroom

(2 - 3). (HU). May be elected twice for credit. May be elected more than once in the same term.

ENGLISH 223. Creative Writing

(3). (CE). May not be repeated for credit. F, W, Sp.

ENGLISH 225. Academic Argumentation

Completion of the First-Year Writing Requirement. (4; 3 in the half-term). (HU). May not be repeated for credit. F, W, Sp.

ENGLISH 226. Directed Writing

Consent of instructor required. (1 - 3). (INDEPENDENT). May be repeated for a maximum of 3 credits. F, W, Sp/Su, Sp, Su.

ENGLISH 227 / THTREMUS 227. Introductory Playwriting
(3; 2 in the half-term). (CE). May not be repeated for credit.

ENGLISH 229. Professional Writing
Completion of the First-Year Writing Requirement. (4). May not be repeated for credit.

ENGLISH 230. Introduction to Short Story and Novel
(3). (HU). May not be repeated for credit.

ENGLISH 232. Introduction to Visual Culture
(3 - 4; 3 in the half-term). (HU). May be repeated for a maximum of 6 credits. May be elected more than once in the same term.

ENGLISH 235. Introduction to Autobiography
(3). (HU). May not be repeated for credit.

ENGLISH 240. Introduction to Reading Poetry
(3). (HU). May not be repeated for credit.

ENGLISH 242. Interdisciplinary Studies in English
(1 - 4). (ID). May be elected twice for credit.

ENGLISH 244. Introduction to Literary Journalism
(3). (HU). May not be repeated for credit.

ENGLISH 245 / RCHUMS 280 / THTREMUS 211. Introduction to Drama and Theatre
(3; 2 in the half-term). (HU). May not be repeated for credit. No credit granted to those who have completed or are enrolled in RCHUMS 281.

ENGLISH 258 / JUDAIC 258 / RELIGION 258. The Bible as Literature
(3). (HU). May not be repeated for credit.

ENGLISH 260. Introduction to British Literature
(3). (HU). May not be repeated for credit.

ENGLISH 267. Shakespeare and His World
Completion of first-year writing requirement. (3). (HU). May not be repeated for credit.

ENGLISH 270. Introduction to American Literature
(3). (HU). May not be repeated for credit.

ENGLISH 274 / AAS 271. Introduction to Afro-American Literature
AAS 111 (CAAS 111). (3; 2 in the half-term). (HU). May not be repeated for credit.

ENGLISH 280 / DIGITAL 280. Introduction to Digital Studies
(3). (HU). May not be repeated for credit. No credit granted to those who have completed or are enrolled in AMCULT 202: Digital Culture or SAC 202: Introduction to Digital Media Studies.

ENGLISH 282 / AMCULT 232 / NATIVEAM 232. Introduction to Native American Literature
(3). (HU). May not be repeated for credit.

ENGLISH 285. Introduction to Twentieth-Century Literature
(3). (HU). May not be repeated for credit.

ENGLISH 290. Themes in Language and Literature
(3 - 4; 3 in the half-term). (HU). May be repeated for a maximum of 6 credits.

ENGLISH 292. Topics in Language and Literature
(1 - 2; 1 in the half-term). (HU). May be elected twice for credit. May be elected more than once in the same term.

ENGLISH 293. Great Works
(1 - 2; 1 in the half-term). (HU). May be repeated for a maximum of 4 credits. May be elected more than once in the same term.

ENGLISH 299. Directed Study
Consent of instructor required. (1 - 3). (INDEPENDENT). May be repeated for a maximum of 3 credits. F, W, Sp/Su, Sp, Su.

ENGLISH 303. Language and Rhetorical Studies
Recommended for students interested in focusing their study of English on language matters. (4; 3 in the half-term). (HU). May be repeated for a maximum of 8 credits. May be elected more than once in the same term.

ENGLISH 304. Critical Reading
Completion of 200-level Foundations and Methods course. (3). (HU). May be repeated for a maximum of 6 credits. May be elected more than once in the same term.

ENGLISH 305. Exploring the English Language
Recommended for students preparing to teach English. (3). (HU). May not be repeated for credit.

ENGLISH 307 / AAS 317 / WGS 347. Threads: What Does Clothing Have to Do with Race, Culture, Politics, and the Environment?
(3). (HU). May not be repeated for credit.

ENGLISH 308. History of the English Language
(3 - 4; 3 in the half-term). (HU). May not be repeated for credit.

ENGLISH 311 / THTREMUS 328. Theater of Politics
Consent of department required. (3). (HU). May not be repeated for credit.

ENGLISH 313. Topics in Literary Studies
(4; 3 in the half-term). (HU). May be repeated for a maximum of 8 credits. May be elected more than once in the same term.

ENGLISH 314 / WGS 314. Gender and Sexuality Studies in Literature
(3 - 4; 2 - 3 in the half-term). May be repeated for a maximum of 6 credits. May be elected more than once in the same term.

ENGLISH 315 / WGS 315. Women and Literature
(3 - 4; 3 in the half-term). (HU). May be repeated for a maximum of 6 credits.

ENGLISH 316. Disability Studies
(3). (HU). May not be repeated for credit.

ENGLISH 317. Literature and Culture
(3). (HU). May be repeated for a maximum of 6 credits. May be elected more than once in the same term.

ENGLISH 318. Genre Studies
(3). (HU). May be repeated for a maximum of 6 credits.

ENGLISH 319. Literature and Social Change

(3). (HU). May be repeated for a maximum of 6 credits. May be elected more than once in the same term.

ENGLISH 320 / ENVIRON 322. Literature and the Environment

(3 - 4; 2 - 3 in the half-term). (HU). May not be repeated for credit.

ENGLISH 321. Internship

Concentration in English. (1). (EXPERIENTIAL). May be repeated for a maximum of 4 credits. May be elected more than once in the same term. Students may count up to 4 credits of ENGLISH 321 toward their elective concentration credits. Offered mandatory credit/no credit.

ENGLISH 322. Community Journalism

Consent of instructor required. (3). May be repeated for a maximum of 6 credits.

ENGLISH 323. Creative Writing: Fiction

ENGLISH 223; (C or better, No OP/F). (Prerequisites enforced at registration.) (3). (CE). May be repeated for a maximum of 6 credits. May be elected more than once in the same term.

ENGLISH 324. Creative Writing: Poetry

ENGLISH 223. (Prerequisites enforced at registration.) (3). (CE). May be repeated for a maximum of 6 credits. May be elected more than once in the same term.

ENGLISH 325. Art of the Essay

Completion of the First-Year Writing Requirement. (3). May not be repeated for credit. F, W, Sp, Su.

ENGLISH 327 / THREMUS 327. Intermediate Playwriting

ENGLISH 227. (3; 2 in the half-term). May not be repeated for credit.

ENGLISH 328. Writing and the Environment

(3). (CE). May be elected twice for credit.

ENGLISH 330 / FTVM 330. Major Directors

FTVM 150 or FTVM (SAC) 236. (3). (HU). May be repeated for a maximum of 9 credits. May be elected more than once in the same term.

ENGLISH 331 / FTVM 331. Film Genres and Types

FTVM 150 or FTVM (SAC) 236. (3). (HU). May be repeated for a maximum of 9 credits. May be elected more than once in the same term.

ENGLISH 332. Visual Culture

(3 - 4; 2 - 3 in the half-term). (HU). May be elected twice for credit. May be elected more than once in the same term.

ENGLISH 333 / AMCULT 333 / ASIANPAM 333 / NATIVEAM 333. Green Indigeneity

Not available to students who have completed AMCULT 311 (Topic #11) or ENGLISH 317 (Topic #33) when taught with the topic "Green Indigeneity". (Prerequisites enforced at registration.) (3 - 4). (HU). May not be repeated for credit.

ENGLISH 334 / AAS 329 / WGS 325. Writing Sex: Contemporary Black Women Writers

(3). (HU). May not be repeated for credit.

ENGLISH 337 / JUDAIC 334 / MIDEAST 334 / RELIGION 334. The Bible as a Material Object

No credit in JUDAIC 318 with the topic The Bible as a Material Object. (Prerequisites enforced at registration.) (3). (HU). May not be repeated for credit.

ENGLISH 340. Studies in Poetry

(3). (HU). May not be repeated for credit.

ENGLISH 341. Fantasy

(3 - 4; 2 - 3 in the half-term). (HU). May not be repeated for credit.

ENGLISH 342. Science Fiction

(3 - 4; 2 - 3 in the half-term). (HU). May not be repeated for credit.

ENGLISH 343 / ENVIRON 320 / STS 330. Environmental Journalism: Reporting About Science, Policy, and Public Health

Completion of First-Year Writing Requirement. (3). (ID). May not be repeated for credit.

ENGLISH 344. Writing for Publication/Public Writing

(3). May be elected twice for credit.

ENGLISH 345. The New Essay

Completion of the First Year Writing Requirement. (3). (CE). May not be repeated for credit.

ENGLISH 346. Drama and Performance Studies

(3). (HU). May be repeated for a maximum of 6 credits.

ENGLISH 349 / THREMUS 323. American Theatre and Drama

(3). (HU). May not be repeated for credit.

ENGLISH 350 / MEMS 350. Literature in English to 1660

(3). (HU). May not be repeated for credit. F.

ENGLISH 351. Literature in English, 1660-1830

(3 - 4; 3 in the half-term). (HU). May not be repeated for credit. W.

ENGLISH 352. Literature in English, 1830-Present

(3 - 4; 3 in the half-term). (HU). May not be repeated for credit.

ENGLISH 355 / ENVIRON 355. Southern Natures: The Making and Unmaking of Races and Environments in the US South

(3). (HU). May not be repeated for credit.

ENGLISH 360. The Rise of the Novel

(3). (HU). May not be repeated for credit.

ENGLISH 361. The Victorian Novel

(3). (HU). May not be repeated for credit.

ENGLISH 362. The American Novel

(3 - 4; 3 in the half-term). (HU). May not be repeated for credit.

ENGLISH 363. The Modern Novel

(3 - 4; 3 in the half-term). May not be repeated for credit.

ENGLISH 364. The Contemporary Novel

(3 - 4; 2 - 3 in the half-term). (HU). May not be repeated for credit.

ENGLISH 367 / MEMS 367. Shakespeare's Principal Plays

(3 - 4; 3 in the half-term). (HU). May not be repeated for credit.

ENGLISH 370. Jane Austen

(3). (HU). May not be repeated for credit.

ENGLISH 372 / AAS 382. Toni Morrison

(3). (HU). May not be repeated for credit.

ENGLISH 373. Literature of the Americas

(3). (HU). May not be repeated for credit.

ENGLISH 374 / AAS 374. Readings in African American Literature

(3). (HU). May be repeated for a maximum of 6 credits.

ENGLISH 375. World Literatures in English

(3). (HU). May not be repeated for credit.

ENGLISH 378 / AMAS 378 / AMCULT 382 / ISLAM 378. Muslim and Arab Literatures

(3). (HU). May be repeated for a maximum of 6 credits.

ENGLISH 379 / AAS 338. Literature in Afro-American Culture

AAS 201. (3). (HU). May not be repeated for credit.

ENGLISH 381 / AMCULT 324 / ASIANPAM 324. Asian American Literature

(3). (HU). May not be repeated for credit.

ENGLISH 382 / AMCULT 328 / NATIVEAM 328. Studies in Native American Literature

(3). (HU). May not be repeated for credit.

ENGLISH 383 / JUDAIC 389. Jewish Literature

(3). (HU). May not be repeated for credit.

ENGLISH 384 / AAS 384 / AMCULT 376. Caribbean Literature

AAS 202. (3). (HU). (R&E). May be repeated for a maximum of 6 credits.

ENGLISH 385 / AAS 385. African Literature

AAS 200. (3). (HU). May be elected twice for credit.

ENGLISH 387 / AMCULT 327 / LATINOAM 327. Latina/Latino Literature of the U.S.

(3). (HU). May not be repeated for credit. Taught in English.

ENGLISH 388 / AMCULT 325 / ASIANPAM 325. Pacific Literary and Cultural Studies

(3). (HU). May not be repeated for credit.

ENGLISH 389 / AAS 346 / HISTORY 362. Literature in African History

(3). (HU). (R&E). May not be repeated for credit.

ENGLISH 390. Topics in Literary Criticism and Theory

(3). May not be repeated for credit.

ENGLISH 397. Honors Junior Seminar

Junior or senior standing, and permission of instructor. (3). May be repeated for a maximum of 9 credits.

ENGLISH 398. Junior Seminar in English Studies

(4; 3 in the half-term). May be repeated for a maximum of 8 credits. May be elected more than once in the same term.

ENGLISH 403. Topics in Language and Rhetorical Studies

(3). May be elected twice for credit. May be elected more than once in the same term.

ENGLISH 405. Theories of Writing

(3). May not be repeated for credit.

ENGLISH 407. Topics in English Language and Literature

(3). May be elected twice for credit. May be elected more than once in the same term.

ENGLISH 408 / LING 408. Varieties of English

(3). May not be repeated for credit.

ENGLISH 409. Old English

(3). May not be repeated for credit.

ENGLISH 410. Middle English

(3). May not be repeated for credit.

ENGLISH 411. Art of the Film

(3). May not be repeated for credit.

ENGLISH 414. Topics in Gender/Sexuality Studies

(3). May not be repeated for credit.

ENGLISH 415 / WGS 414. Studies in Women and Literature

(3). May not be repeated for credit.

ENGLISH 418. The Graphic Narrative

(3). May not be repeated for credit. Rackham credit requires additional work.

ENGLISH 420 / DIGITAL 420. Technology and the Humanities

(3). May not be repeated for credit.

ENGLISH 423. Advanced Fiction Writing

English 323 OR English 324. (Prerequisites enforced at registration.) (3). May be repeated for a maximum of 6 credits.

ENGLISH 424. Advanced Poetry Writing

English 323 or English 324. (Prerequisites enforced at registration.) (3). May be repeated for a maximum of 6 credits.

ENGLISH 425. Advanced Essay Writing

Open to students who have completed first year college writing. (3). May not be repeated for credit.

ENGLISH 426. Directed Writing

Consent of instructor required. Junior standing. (1 - 4). (INDEPENDENT). May be repeated for a maximum of 6 credits. F, W, Sp/Su, Sp, Su.

ENGLISH 427 / THREMUS 427. Advanced Playwriting

Consent of instructor required. ENGLISH 327. (3; 2 in the half-term). May be repeated for a maximum of 6 credits.

ENGLISH 428. Senior Creative Writing Tutorial

Consent of instructor required. ENGLISH 223, 323, and 423/429. (3). May not be repeated for credit.

ENGLISH 440. Modern Poetry

(3). May not be repeated for credit.

ENGLISH 441. Contemporary Poetry

(3). May not be repeated for credit.

ENGLISH 442. Studies in Poetry

(3). May not be repeated for credit.

ENGLISH 443 / THREMUS 321. History of Theatre I

(3). May not be repeated for credit.

ENGLISH 444 / THREMUS 322. History of Theatre II

(3). May not be repeated for credit.

ENGLISH 450. Studies in Medieval and Renaissance Literature

(3). May be repeated for a maximum of 8 credits. May be elected more than once in the same term.

ENGLISH 451. Studies in Literature, 1600-1830

(3). May be repeated for credit. May be elected more than once in the same term.

ENGLISH 452. Studies in Literature, 1830-Present

(3). May not be repeated for credit.

ENGLISH 460. Studies in the Novel

(3). May be repeated for a maximum of 6 credits. May be elected more than once in the same term.

ENGLISH 464. Studies in Individual Authors

(3). May be repeated for credit. May be elected more than once in the same term.

ENGLISH 465 / MEMS 465. Chaucer: The Canterbury Tales

(3). May not be repeated for credit.

ENGLISH 467. Topics in Shakespeare

Prior course work in Shakespeare is recommended. (3). May not be repeated for credit.

ENGLISH 469. Milton

(3). May not be repeated for credit.

ENGLISH 471. Nineteenth-Century American Literature

(3). May not be repeated for credit.

ENGLISH 472. Twentieth-Century American Literature

(3). May not be repeated for credit.

ENGLISH 473. Topics in American Literature

(3; 2 - 3 in the half-term). May be repeated for a maximum of 6 credits. May be elected more than once in the same term.

ENGLISH 480. Advanced Topics in Disability Studies

ENGLISH 216. (3). May not be repeated for credit.

ENGLISH 495. Capstone: Drafting the Thesis

Consent of instructor required. Admission to the English Honors Program and permission of instructor. (3). May not be repeated for credit.

Continuing Course. Y grade can be reported at end of the first-term to indicate work in progress. At the end of the second term, the final grade is posted for both term's elections.

ENGLISH 496. Capstone: Completing the Thesis

Consent of instructor required. (1 - 3). May not be repeated for credit. Continuing Course. Y grade can be reported at end of the first-term to indicate work in progress. At the end of the second term, the final grade is posted for both term's elections. W.

ENGLISH 498. Directed Teaching

Consent of instructor required. (3; 2 in the half-term). (INDEPENDENT). May be repeated for a maximum of 9 credits.

ENGLISH 499. Directed Study

Consent of instructor required. Junior standing. (1 - 4). (INDEPENDENT). May be repeated for a maximum of 6 credits. F, W, Sp, Sp/Su, Su.

ENGLISH 501 / GERMAN 501. Old English

(3; 2 in the half-term). May not be repeated for credit.

LSA English Language Institute

Courses In English Language Institute (ELI)

ELI 131. Interactive Communication

(1). May not be repeated for credit. A maximum of four ELI credits may be counted toward a degree. Offered mandatory credit/no credit.

ELI 210. English Vocabulary for Speaking and Writing

(1). May not be repeated for credit. A maximum of four ELI credits may be counted toward a degree. Offered mandatory credit/no credit.

ELI 222. Writing for Campus and Career

(2). May not be repeated for credit. A maximum of four ELI credits may be counted toward a degree. Offered mandatory credit/no credit.

ELI 224. Critical Reading for Effective Writing

(2). May not be repeated for credit. Offered mandatory credit/no credit.

ELI 236. Pronunciation I

(1). May not be repeated for credit. A maximum of four ELI credits may be counted toward a degree. Offered mandatory credit/no credit.

ELI 389. Intensive English

Consent of instructor required. May not be repeated for credit. Su.

ELI 390 / EDUC 390 / LING 390 / RCSTP 390. Community-Engaged Learning in ESL Teaching Contexts

(3). (EXPERIENTIAL). May be elected three times for credit.

ELI 392. Topics in English for Academic Purposes

(1 - 3). May not be repeated for credit. A maximum of four ELI credits may be counted toward a degree.

ELI 393. Teaching English Internationally

(3). May not be repeated for credit.

ELI 399. Individual Research and Study

Permission of instructor. (1 - 4). (INDEPENDENT). May be repeated for a maximum of 4 credits. A maximum of four ELI credits may be counted toward a degree.

LSA Exhibit Museum

Courses In Museum Methods (MUSMETH)

MUSMETH 405. Special Problems in Museum Methods

Permission of instructor; MUSMETH 406 is desired. (2 - 4). May be elected twice for credit. F.

MUSMETH 499. Independent Research

Permission of instructor. (1 - 4). (INDEPENDENT). May be elected three times for credit.

LSA Film, Television, and Media

Courses In Film, Television, and Media Std (FTVM)

FTVM 150 / RCHUMS 150. Introduction to Film, Television, and Media

(4). (HU). May not be repeated for credit.

FTVM 190. First-Year Film Seminar

Enrollment restricted to first-year students, including those with sophomore standing. (3; 2 in the half-term). (HU). May not be repeated for credit.

FTVM 203. Media Production Mini Course I

(1). (CE). May be elected three times for credit. May be elected more than once in the same term.

FTVM 210. Introduction to Screenwriting

FTVM 150 or FTVM (SAC 236). (3). May not be repeated for credit.

FTVM 250 / JUDAIC 250 / MIDEAST 280. Screening Jewish Cultures

(3). (HU). (R&E). May not be repeated for credit.

FTVM 272. Classical Film Theory

(3). May not be repeated for credit.

FTVM 290. Introduction to Media Production

FTVM 150 or RCHUMS 150, or FTVM (SAC) 236 completed with a minimum grade of C- or better. (Prerequisites enforced at registration.) (4). (CE). May not be repeated for credit.

FTVM 300. Movie/Serial Television Production I

FTVM 290; and major in Film, Television, and Media. (Prerequisites enforced at registration.) (4). May not be repeated for credit.

FTVM 301. Documentary I

FTVM 290 and FTVM Major. (Prerequisites enforced at registration.) (4). May not be repeated for credit.

FTVM 302. Multi-Camera Television Production

FTVM 290; and major in Film, Television, and Media. (Prerequisites enforced at registration.) (4). May not be repeated for credit.

FTVM 303. Media Production Mini Course II

(1). (CE). May be elected three times for credit. May be elected more than once in the same term.

FTVM 304. Topics in Media Production I

FTVM 290 with a minimum grade of C- or better, and a declared major in Film, Television, and Media. (Prerequisites enforced at registration.) (4). May be repeated for a maximum of 8 credits. May be elected more than once in the same term.

FTVM 305. The Experimental Screen

FTVM 290. (Prerequisites enforced at registration.) (4). May not be repeated for credit.

FTVM 306. Animation and Digital Media Practices I

FTVM 290. (Prerequisites enforced at registration.) Students should have basic working knowledge of the Macintosh platform, Photoshop, and digital video. (4). May not be repeated for credit.

FTVM 307. Film Analysis for Filmmakers

FTVM 150 or FTVM (SAC) 236 and FTVM (SAC) 290. (3). May not be repeated for credit.

FTVM 308. Screenwriting for Non-Majors

(3). (CE). May not be repeated for credit.

FTVM 309. Shorts from Short Stories

FTVM 290 with a minimum grade of C- or better, and a declared major in Film, Television, and Media. (Prerequisites enforced at registration.) (4). (CE). May not be repeated for credit.

FTVM 310. Screenwriting I: The Feature Script

FTVM 210, FTVM 290, FTVM majors. (Prerequisites enforced at registration.) (3). May not be repeated for credit.

FTVM 311. Writing for Television I: The Spec Script

FTVM 210, FTVM 290, FTVM major. (Prerequisites enforced at registration.) (3). May not be repeated for credit.

FTVM 314 / POLISH 314. Polish Cinema

(3). (HU). May not be repeated for credit.

FTVM 315 / CZECH 315. The Czech New Wave and Its Legacy

(3). (HU). (R&E). May not be repeated for credit.

FTVM 316 / ITALIAN 316. Screening Italian-Americans

(3). (R&E). May not be repeated for credit.

FTVM 317. WOLV TV

(4). (CE). May not be repeated for credit.

FTVM 320. Documentary Film

FTVM 150 or FTVM (SAC) 236. (3). (HU). May not be repeated for credit.

FTVM 321 / MIDEAST 331. Iranian Cinema: Re/Presenting a Nation

(3). (HU). (R&E). May not be repeated for credit.

FTVM 322 / MIDEAST 223. How To Survive Dark Times: A Century of Armenian Film

(3). (HU). May not be repeated for credit.

FTVM 330 / ENGLISH 330. Major Directors

FTVM 150 or FTVM (SAC) 236. (3). (HU). May be repeated for a maximum of 9 credits. May be elected more than once in the same term.

FTVM 331 / ENGLISH 331. Film Genres and Types

FTVM 150 or FTVM (SAC) 236. (3). (HU). May be repeated for a maximum of 9 credits. May be elected more than once in the same term.

FTVM 333 / GERMAN 333. Fascist Cinemas

FTVM 150 or FTVM (SAC) 236. (3). (HU). (R&E). May not be repeated for credit.

FTVM 334 / AMCULT 334 / COMM 334 / DIGITAL 334. Race, Gender, Sexuality and U.S. Culture in Video Games

(4; 3 in the half-term). (R&E). May not be repeated for credit.

FTVM 346 / AMCULT 346 / COMM 346 / DIGITAL 346 / GERMAN 346. Media Matter: From Print to Screen Culture

(3). (HU). May not be repeated for credit.

FTVM 350. The Silent Screen

(3). (HU). May not be repeated for credit.

FTVM 352. Film History: Origins to the French New Wave

FTVM 150 or FTVM (SAC) 236. (3). (HU). May not be repeated for credit.

FTVM 353. Film History: Post New Wave

FTVM 150 or FTVM (SAC) 236. (3). (HU). May not be repeated for credit.

FTVM 354 / DIGITAL 354. New Media History

FTVM 150 or FTVM (SAC) 236. (3). (HU). May not be repeated for credit.

FTVM 355. Television History

FTVM 150 or FTVM (SAC) 236. (3). (HU). May not be repeated for credit.

FTVM 356. History of Documentary

(3). (HU). (R&E). May not be repeated for credit.

FTVM 358. Italian Film: History, Art, Entertainment

(3). (HU). May not be repeated for credit. No credit granted to those who have completed or are enrolled in ITALIAN 358.

FTVM 366. Topics in Film, Television and Popular Culture

(3). May be repeated for a maximum of 9 credits. May be elected more than once in the same term.

FTVM 372. Contemporary Film Theory

FTVM 150 or FTVM (SAC) 236. (3). (HU). May not be repeated for credit.

FTVM 375. Television Theory and Criticism

FTVM 150 or FTVM (SAC) 236. (3). May not be repeated for credit.

FTVM 376 / DIGITAL 376. New Media Theory

FTVM 150 or FTVM (SAC) 236. (3). (HU). May not be repeated for credit.

FTVM 379 / HISTART 379 / HISTORY 379 / JUDAIC 379. Jewish Photographers Picture the Modern World

(3). (HU). May not be repeated for credit. Rackham credit requires additional work.

FTVM 381 / AMCULT 381 / LATINOAM 381. Latinas/Latinos and the Media

Consent of department required. (3). (HU). May not be repeated for credit.

FTVM 391. Editing Theory and Practice

FTVM 290 with a minimum grade of C- or better, and a declared major in Film, Television, and New Media. (Prerequisites enforced at registration.) (4). (CE). May not be repeated for credit.

FTVM 394 / DIGITAL 394. Topics in Digital Media Production

Some media production experience. (4). (CE). May be repeated for a maximum of 8 credits.

FTVM 401. Documentary II

FTVM 301, FTVM majors only. (Prerequisites enforced at registration.) (4). May not be repeated for credit.

FTVM 403. Television Sketch Comedy

Consent of instructor required. FTVM 310 or FTVM 311, FTVM 300 or FTVM 302. (4). May not be repeated for credit.

FTVM 404. Topics in Media Production II

A 300- (or 400-) level production course in the relevant emphasized area: FTVM 300, 301, 302, or 306; and permission of instructor. (4). May be repeated for a maximum of 8 credits. May be elected more than once in the same term.

FTVM 406. Animation and Digital Media Practices II

Consent of instructor required. FTVM 306 or equivalent experience and permission of instructor. (4). May not be repeated for credit.

FTVM 409. Pitching and Professional Development

FTVM 210, 310, 410. (Prerequisites enforced at registration.) (3). May not be repeated for credit.

FTVM 410. Screenwriting II: The Rewrite

FTVM 310 and FTVM concentrators. (3). May not be repeated for credit.

FTVM 411. Writing for Television II: Pilots

FTVM 311. (Prerequisites enforced at registration.) FTVM 290 and 310. (3). May not be repeated for credit.

FTVM 421. TV Pilot Production

Consent of instructor required. (4). May not be repeated for credit.

FTVM 423. Practicum for the Screenwriter

FMTV 290, 310, and 410. (4). May not be repeated for credit.

FTVM 427. Screenwriting III

FTVM 310 and 410. Limited to students whose work is judged as showing outstanding potential in writing for the screen. (3). May not be

repeated for credit.

FTVM 435. Authorship and the Archive: Exploring the Screen Arts Mavericks & Makers Collections

FTVM 150 or FTVM (SAC) 236, FTVM 272. (3). May be elected twice for credit.

FTVM 441. National Screens

FTVM 150 or FTVM (SAC) 236. (3). May be repeated for a maximum of 6 credits. May be elected more than once in the same term.

FTVM 455. Topics in Film Studies

FTVM 150 or FTVM (SAC) 236. (3). May be repeated for a maximum of 9 credits. May be elected more than once in the same term.

FTVM 461 / WGS 461. Feminist and Queer Film Theory

WGS/AMCULT 240 (WOMENSTD/AMCULT 240); and junior standing. (3). May not be repeated for credit.

FTVM 480. Internship

Consent of instructor required. (2). (EXPERIENTIAL). May be repeated for a maximum of 6 credits. May be elected more than once in the same term. Offered mandatory credit/no credit.

FTVM 495. Senior Honors Seminar

Consent of instructor required. (1 - 6). May be repeated for a maximum of 6 credits.

FTVM 499. Independent Study

Consent of instructor required. (1 - 4). (INDEPENDENT). May be repeated for a maximum of 8 credits. May be elected more than once in the same term.

FTVM 500. Directed Study in Film, Television, and Media

Consent of instructor required. (1 - 4). (INDEPENDENT). May be repeated for a maximum of 6 credits. May be elected more than once in the same term.

LSA Germanic Languages & Literatures

Courses In Dutch and Flemish Studies (DUTCH)

DUTCH 111. First Special Speaking and Reading Course

(4). May not be repeated for credit. Graduate students should elect DUTCH 511. No credit granted to those who have completed or are enrolled in DUTCH 100. F.

DUTCH 112. Second Special Speaking and Reading Course

DUTCH 111. (4). May not be repeated for credit. Graduate students should elect DUTCH 512. No credit granted to those who have completed or are enrolled in DUTCH 100. W.

DUTCH 160. First Year Seminar

Enrollment restricted to first-year students, including those with sophomore standing. (3). (HU). May not be repeated for credit. Taught in English. F.

DUTCH 231. Second-Year Dutch

DUTCH 112 or 100. (4). May not be repeated for credit. Graduate students should elect DUTCH 531. F.

DUTCH 232. Second-Year Dutch

DUTCH 231. (4). (Lang Req). May not be repeated for credit. Graduate students should elect DUTCH 532. W.

DUTCH 325. Intermediate Dutch/Flemish

DUTCH 232. (3). May not be repeated for credit.

DUTCH 339. Independent Study

Consent of instructor required. (2 - 4). (INDEPENDENT). May be repeated for credit. F, W, Sp.

DUTCH 351 / JUDAIC 351. Anne Frank in Context

(3). (HU). (R&E). May not be repeated for credit.

Courses In German (GERMAN)

GERMAN 100. Intensive Elementary Course

(8). May not be repeated for credit. No credit granted to those who have completed or are enrolled in GERMAN 101, 102 103 or RCLANG 191.

GERMAN 101. Elementary Course

All students with prior coursework in German must take the placement test. (4). May not be repeated for credit. No credit granted to those who have completed or are enrolled in GERMAN 100, 103, or RCLANG 191. F, W, Su.

GERMAN 102. Elementary Course

GERMAN 101. (4). May not be repeated for credit. No credit granted to those who have completed or are enrolled in GERMAN 100, 103, or RCLANG 191. F, W, Sp.

GERMAN 103. Review of Elementary German

Assignment by placement test or permission of department. (5). May not be repeated for credit. No credit granted to those who have completed or are enrolled in GERMAN 100, 101, 102, or RCLANG 191.

GERMAN 111. First Special Reading Course

Permission of the department. (4). May not be repeated for credit. The course does not satisfy the LSA foreign language requirement. Taught in English.

GERMAN 112. Second Special Reading Course

GERMAN 111 or placement test. (4). May not be repeated for credit. This course does not satisfy the LSA foreign language requirement. W, Su.

GERMAN 127 / JUDAIC 101 / YIDDISH 101. First Year Yiddish I

(4). May not be repeated for credit. No credit granted to those who have completed or are enrolled in JUDAIC 431 or YIDDISH 431.

GERMAN 128 / JUDAIC 102 / YIDDISH 102. First Year Yiddish II

JUDAIC/YIDDISH 101. (4). May not be repeated for credit. No credit granted to those who have completed or are enrolled in JUDAIC 432 or YIDDISH 432.

GERMAN 180. First Year Seminar

No knowledge of German is required. Enrollment restricted to first-year students, including those with sophomore standing. (3). (HU). May not be repeated for credit. Taught in English.

GERMAN 221. Accelerated Third Semester German

GERMAN 102 and assignment by placement test. (5). May not be repeated for credit. No credit granted to those who have completed GERMAN 230 or 231. Four credits granted to those who have completed GERMAN 102 or 103.

GERMAN 227 / JUDAIC 201 / YIDDISH 201. Second Year Yiddish I

JUDAIC/YIDDISH 102. (4). May not be repeated for credit. No credit granted to those who have completed or are enrolled in JUDAIC 531 or YIDDISH 531.

GERMAN 228 / JUDAIC 202 / YIDDISH 202. Second Year Yiddish II

JUDAIC/YIDDISH 201. (4). (Lang Req). May not be repeated for credit. No credit granted to those who have completed or are enrolled in JUDAIC 532 or YIDDISH 532.

GERMAN 230. Intensive Second-Year Course

GERMAN 102 or 103 or equivalent and assignment by placement test, or permission of instructor. (8). (Lang Req). May not be repeated for credit. No credit granted to those who have completed or are enrolled in GERMAN 221, 231, 232, or RCLANG 291.

GERMAN 231. Second-Year Course

GERMAN 102 or 103 and assignment by placement test. (4). May not be repeated for credit. No credit granted to those who have completed or are enrolled in GERMAN 230, 221, or RCLANG 291.

GERMAN 232. Second-Year Course

GERMAN 221 or 231; or assignment by placement test. (4). (Lang Req). May not be repeated for credit. No credit granted to those who have completed or are enrolled in GERMAN 230 or RCLANG 291. All sections of GERMAN 232 address special topics, <i>e.g., </i>music, philosophy, science, current political issues, <i>etc.</i> F, W, Sp, Su.

GERMAN 234. German Grammar

Concurrent enrollment in GERMAN 112, 221, 230, 231, 232, or RCLANG 291. (1). May be repeated for a maximum of 2 credits.

GERMAN 300. Towards Fluency in German

GERMAN 230 or 232 or RCLANG 291 or the equivalent as per placement test results. (4). May not be repeated for credit. Taught in German.

GERMAN 303. Topics in German Culture and the Arts

(3 - 4). (HU). May be elected three times for credit. Taught in English.

GERMAN 304. Studies in German Culture

(1 - 2 in the half-term). (HU). May be elected three times for credit. May be elected more than once in the same term. Taught in English.

GERMAN 306. Conversation and Debate

GERMAN 230, 231, or 232; concurrent enrollment in a 300-level course is encouraged but not necessary. (1). May be elected three times for credit. This course does not satisfy the language requirement.

GERMAN 309 / RCHUMS 307. Imagination

(3). (HU). May not be repeated for credit. Taught in English.

GERMAN 310. Studies in German Culture

Residence in Max Kade German House; others by permission of instructor. (1 - 2). May be repeated for a maximum of 6 credits.

GERMAN 312. Cityscapes: Geographic Immersion

Consent of department required. Max Kade Resident or GERMAN 221/231 or 310. (1 - 2). May be elected four times for credit.

GERMAN 315. Introduction to German Literature

GERMAN 230 or 232 or RCLANG 291 or the equivalent as per placement test results. (3). (HU). May not be repeated for credit.

GERMAN 322 / HISTORY 322 / JUDAIC 322. The Origins of Nazism

(4). (HU). (R&E). May not be repeated for credit. Taught in English.

GERMAN 323 / ENVIRON 323. Environmentalism and Ecocriticism

No credit in GERMAN 303 or ENVIRON 304 with the topic "Environmentalism and Ecocriticism.". (Prerequisites enforced at registration.) (3). (HU). May not be repeated for credit.

GERMAN 325. Intermediate German

GERMAN 230 or 232 or RCLANG 291 or the equivalent as per placement test results. (3). May be elected twice for credit. May be elected more than once in the same term. Taught in German.

GERMAN 326. Intermediate German

GERMAN 230 or 232 or RCLANG 291 or the equivalent as per placement test results. (3). May be elected twice for credit. May be elected more than once in the same term. Taught in German.

GERMAN 329. Independent Study

Consent of instructor required. (1 - 4; 1 - 2 in the half-term). (INDEPENDENT). May be repeated for a maximum of 8 credits. F, W, Sp, Su.

GERMAN 333 / FTVM 333. Fascist Cinemas

FTVM 150 or FTVM (SAC) 236. (3). (HU). (R&E). May not be repeated for credit. Taught in English.

GERMAN 346 / AMCULT 346 / COMM 346 / DIGITAL 346 / FTVM 346. Media Matter: From Print to Screen Culture

(3). (HU). May not be repeated for credit. Taught in English.

GERMAN 350. Business German

GERMAN 230 or 232 or RCLANG 291 or the equivalent as per placement test results. (3). May not be repeated for credit. Taught in German.

GERMAN 351. Internships in German-speaking Europe: Reflection Seminar

Internship in a German-speaking country. (1 - 3). (EXPERIENTIAL). May be repeated for a maximum of 6 credits.

GERMAN 357. Tutoring High-School and K-8 German

Sophomore standing and above. Completion of one graded German course beyond GERMAN 300. (Prerequisites enforced at registration.) (3). (EXPERIENTIAL). May not be repeated for credit.

GERMAN 358. German Teaching Assistance for Children at the Deutsche Schule Ann Arbor (DSAA)

Sophomore standing or beyond. Completion of two of the following courses: GERMAN 300, 325, 326, 332, 336, 350, 351, 357, 380, 385, 425, 426, 430, 431, 454, 457, 464, or 499. (1). (EXPERIENTIAL). May not be repeated for credit.

GERMAN 361 / RCLANG 321. Readings in German

Consent of instructor required. Proficiency test. (4). May be elected twice for credit. May be elected more than once in the same term.

GERMAN 364. Race and Ethnicity in Postwar Germany

(3). (HU). (R&E). May not be repeated for credit.

GERMAN 375 / MEMS 375 / SCAND 375. Celtic and Nordic Mythology

(3). (HU). May not be repeated for credit. Taught in English.

GERMAN 386. Fairy Tales

(3). (HU). May not be repeated for credit.

GERMAN 388. Topics in German Literature

GERMAN 300, 315, 325, 326, 332, or 336. (3). (HU). May be elected three times for credit. May be elected more than once in the same term.

GERMAN 389. Antisemitism in German Literature and Culture: From Martin Luther to the Present

No credit granted to those who have completed or are enrolled in German 388 with Topic #4 (Anti-Semitism in German Lit). (Prerequisites enforced at registration.) Any German-language GERMAN course on the 300-level: GERMAN 300, 315, 325, 326, or 336, for example. (3). (HU). May not be repeated for credit.

GERMAN 391 / HISTORY 386 / JUDAIC 386. The Holocaust

(4). (SS). (R&E). May not be repeated for credit. Taught in English.

GERMAN 396 / AAS 395 / HISTORY 396. Germany and the Black Diaspora

(3). (HU). (R&E). May not be repeated for credit. Taught in English.

GERMAN 401 / HISTORY 416. Nineteenth-Century German and European Intellectual History

(3). May not be repeated for credit. Taught in English.

GERMAN 402 / HISTORY 417. Twentieth-Century German and European Thought

(3). May not be repeated for credit. Taught in English.

GERMAN 416. Seminar in German Studies

One year beyond GERMAN 232. Students may not take the same topic twice. (3; 2 in the half-term). May be repeated for a maximum of 12 credits. May be elected more than once in the same term.

GERMAN 418 / HISTORY 418 / WGS 418. The German Discovery of Sex

No credit in GERMAN 449 or HISTORY 481 or WGS 431 with the topic "The German Discovery of Sex.". (Prerequisites enforced at registration.) (3). May not be repeated for credit.

GERMAN 425. Advanced German

GERMAN 325, 326 or permission of instructor. (3). May not be repeated for credit. Taught in German. GERMAN 426 may be taken independently of GERMAN 425. Rackham credit requires additional work.

GERMAN 426. Advanced German

GERMAN 325, 326 or permission of instructor. (3; 2 in the half-term). May not be repeated for credit. W. Taught in German. Rackham credit requires additional work.

GERMAN 430 / BA 499. Doing Business in German

One 300-level course taught in German or permission of instructor. (3). May not be repeated for credit. W. Taught in German.

GERMAN 431. Business German: Management and Marketing

GERMAN 350 or 430. (3). May not be repeated for credit. Taught in German.

GERMAN 449. Special Topics in English Translation

(3 - 4; 3 in the half-term). May be elected three times for credit. May be elected more than once in the same term. Taught in English. Rackham credit requires additional work.

GERMAN 457. 20th and 21st Century German Literature and Culture

One year beyond GERMAN 232. (3; 2 in the half-term). May be elected twice for credit. Taught in German. Rackham credit requires additional work.

GERMAN 464. Postwar German Ethnicities in Literature and Culture

One year beyond GERMAN 232. (3). (R&E). May not be repeated for credit. Taught in German.

GERMAN 470. Workshop in Translation

Two courses taught in German beyond GERMAN 232. (3). May not be repeated for credit.

GERMAN 472. Introduction to Literary Translation

Two courses taught in German beyond GERMAN 232. (3). May not be repeated for credit.

GERMAN 491. German Honors Proseminar

Senior Honors standing. (3; 2 in the half-term). May not be repeated for credit. Continuing Course. Y grade can be reported at end of the first-term to indicate work in progress. At the end of the second term of GERMAN 492, the final grade is posted for both term's elections. F.

GERMAN 492. German Honors Proseminar

Senior Honors standing. (1 - 3). May not be repeated for credit. W.

GERMAN 501 / ENGLISH 501. Old English

(3; 2 in the half-term). May not be repeated for credit.

GERMAN 531 / EDCURINS 431. Teaching Methods

Senior standing; and candidate for a teaching certificate. (3). May not be repeated for credit. F.

GERMAN 540. Introduction to German Studies

Permission of instructor. (3). May not be repeated for credit.

Courses In Scandinavian Studies (SCAND)

SCAND 103. Elementary Swedish

(4). May not be repeated for credit.

SCAND 104. Elementary Swedish

SCAND 103. (4). May not be repeated for credit. Students needing SCAND 103 or the equivalent for entry into SCAND 104 can meet this prerequisite by passing an examination by the instructor.

SCAND 233. Second-Year Swedish

SCAND 104 or 100. (4). May not be repeated for credit.

SCAND 234. Second-Year Swedish

SCAND 233. (4). (Lang Req). May not be repeated for credit. Students needing SCAND 233 or the equivalent for entry into SCAND 234 can meet

this prerequisite by passing an examination given by the instructor.

SCAND 325. Third Year Swedish

SCAND 234. (Prerequisites enforced at registration.) (4). May be elected twice for credit.

SCAND 330. Studies in Scandinavian Culture

Reading knowledge of Swedish. (1 - 3). (HU). May be repeated for a maximum of 6 credits.

SCAND 331. Introduction to Scandinavian Civilization

(3). (HU). May not be repeated for credit. Taught in English.

SCAND 349. Independent Study

Consent of instructor required. (1 - 4). (INDEPENDENT). May be repeated for a maximum of 8 credits. F, W, Sp.

SCAND 351. Practice in Business Swedish

SCAND 234, plus internship in a Scandinavian country. (3). (EXPERIENTIAL). May not be repeated for credit.

SCAND 375 / GERMAN 375 / MEMS 375. Celtic and Nordic Mythology

(3). (HU). May not be repeated for credit. Taught in English. F.

SCAND 442 / HISTORY 447 / MEMS 442. The Icelandic Sagas: Vikings, Women, and Vengeance

Upperclass standing or permission of instructor. (3). May not be repeated for credit. Taught in English.

LSA Global and Intercultural Study

Courses In LSA Internships Abroad (INTABRD)

INTABRD 301. CGIS: LSA International Internships with Omprakash

(3 in the half-term). May not be repeated for credit.

INTABRD 302. CGIS: LSA International Internships with SageCorps

(3 in the half-term). May not be repeated for credit.

INTABRD 303. CGIS: LSA International Internships with CEA CAPA

(3 in the half-term). May not be repeated for credit.

INTABRD 304. CGIS: LSA International Internships with IES Abroad

(3 in the half-term). May not be repeated for credit.

Courses In Study Abroad (STDABRD)

STDABRD 202. CGIS: French 232 and French Identity in Aix-en-Provence, France

(1 - 10 in the half-term). May be repeated for a maximum of 60 credits. May be elected more than once in the same term. Multiple Grading Patterns.

STDABRD 203. CGIS: Spanish 232 and Intercultural Learning Topic

Spanish 231 with B- or higher. (1 - 10 in the half-term). May be repeated for a maximum of 60 credits. May be elected more than once in the same term. Multiple Grading Patterns.

STDABRD 230. CGIS: Intermediate French Languages Studies in Grenoble, France

Minimum 4 semesters college-level French or equivalent. (1 - 10 in the half-term). May be repeated for a maximum of 60 credits. May be elected more than once in the same term. (Grenoble, France). Su. Multiple Grading Patterns.

STDABRD 232. CGIS: Semester Multidisciplinary Studies at the Universitat Pompeu Fabra in Barcelona, Spain

(1 - 15). May be repeated for a maximum of 60 credits. May be elected more than once in the same term. Multiple Grading Patterns.

STDABRD 233. CGIS: Advanced Spanish in Alicante, Spain - 400/300

At least two 300-level Spanish courses. (1 - 10 in the half-term). (Lang Req). May be repeated for a maximum of 60 credits. May be elected more than once in the same term. Multiple Grading Patterns.

STDABRD 234. CGIS: Multidisciplinary Studies in Barcelona, Spain

(1 - 15; 1 - 10 in the half-term). May be repeated for a maximum of 60 credits. May be elected more than once in the same term. Multiple Grading Patterns.

STDABRD 235. CGIS: Advanced Language and Culture in Granada, Spain

Minimum five semesters collegelevel Spanish by program start date fulfilled by any of the following or an equivalent: SPANISH 277 RCLANG 324. (1 - 15). May be repeated for a maximum of 60 credits. May be elected more than once in the same term. Multiple Grading Patterns.

STDABRD 236. CGIS: International Business and Humanities at the Universitat Autònoma de Barcelona (UAB)

(1 - 15). May be repeated for a maximum of 60 credits. May be elected more than once in the same term. Multiple Grading Patterns.

STDABRD 238. CGIS: Policy, Law, and European Regional Autonomy in Bilbao, Spain

(1 - 15). May be repeated for a maximum of 60 credits. May be elected more than once in the same term. Multiple Grading Patterns.

STDABRD 240. CGIS: University Study in Spain at the Universidad Carlos III de Madrid, Spain

(3 - 15). May be elected 60 times for credit. May be elected more than once in the same term. Multiple Grading Patterns.

STDABRD 242. CGIS: STEM Summer Research Program in Granada, Spain

(1 - 15). May be repeated for a maximum of 60 credits. May be elected more than once in the same term. Multiple Grading Patterns.

STDABRD 244. CGIS: Neuroscience in Salamanca, Spain

(1 - 10 in the half-term). May be repeated for a maximum of 60 credits. May be elected more than once in the same term. Multiple Grading Patterns.

STDABRD 245. CGIS: Advanced Spanish in Santiago de Compostela, Spain - 400/400

(1 - 10 in the half-term). May be repeated for a maximum of 60 credits. May be elected more than once in the same term. Multiple Grading Patterns.

STDABRD 250. CGIS: Intensive Chinese Language in Beijing, China

At least two semesters college-level Chinese language study with 3.0 GPA. (1 - 10 in the half-term). May be repeated for a maximum of 60 credits. May be elected more than once in the same term. (Beijing, China). Su. Multiple Grading Patterns.

STDABRD 275. CGIS: Global Intercultural Experience for Undergraduates (GIEU)

(2). May not be repeated for credit. Multiple Grading Patterns.

STDABRD 285. CGIS: Arts in Paris, France

(1 - 10 in the half-term). May be repeated for a maximum of 60 credits. May be elected more than once in the same term. Multiple Grading Patterns.

STDABRD 292. CGIS: International Relations, Humanities, and Social Sciences in Aix-en-Provence, France

(1 - 15). May be repeated for a maximum of 60 credits. Multiple Grading Patterns.

STDABRD 295. CGIS: University Study in France - Sciences Po Reims

(1 - 15). May be repeated for a maximum of 60 credits. May be elected more than once in the same term. Multiple Grading Patterns.

STDABRD 303. CGIS: Environment and Sustainable Development in San Jose, Costa Rica

Minimum two semesters college-level Spanish, fulfilled by: SPANISH 100, SPANISH 102, RCLANG 194, or equivalent Background in appropriate social and natural sciences. (1 - 15). May be repeated for a maximum of 60 credits. May be elected more than once in the same term. Multiple Grading Patterns.

STDABRD 304. CGIS: Arabic Language and Culture in Amman, Jordan

2 semesters of Modern Standard Arabic. (1 - 15; 1 - 10 in the half-term). May be repeated for a maximum of 60 credits. Multiple Grading Patterns.

STDABRD 305. CGIS: Language and Culture in Rabat, Morocco

(1 - 15; 1 - 10 in the half-term). May be repeated for a maximum of 60 credits. Multiple Grading Patterns.

STDABRD 306. CGIS: Advanced Language and Culture in Madrid, Spain

Minimum four semesters college-level Spanish by program start date fulfilled by any of the following or an equivalent: SPANISH 230, SPANISH 232, RCLANG 294, or RCLANG 314. (1 - 15). May be repeated for a maximum of 75 credits. May be elected more than once in the same term. Multiple Grading Patterns.

STDABRD 308. CGIS: EcoQuest Field Studies in Whakatiwai, New Zealand

(1 - 15; 1 - 10 in the half-term). May be repeated for a maximum of 60 credits. May be elected more than once in the same term. Multiple Grading Patterns.

STDABRD 310. CGIS: International Development and French Language in Dakar, Senegal

Minimum 3.0 GPA overall and in French classes; minimum 3 semesters college-level French or equivalent. (1 - 15). May be repeated for a maximum of 60 credits. May be elected more than once in the same term. Multiple Grading Patterns.

STDABRD 311. CGIS: Psychology and Research in Madrid, Spain

Preference given to students with two semesters college-level Spanish or more. (1 - 15; 1 - 10 in the half-term). May be repeated for a maximum of 60 credits. May be elected more than once in the same term. Multiple Grading Patterns.

STDABRD 312. CGIS: Spanish in Madrid, Spain - 300/300

5 semesters of college-level Spanish. (1 - 10 in the half-term). May be repeated for a maximum of 60 credits. May be elected more than once in the same term. Multiple Grading Patterns.

STDABRD 313. CGIS: Summer Moroccan Studies in Rabat, Morocco

(1 - 15). May be repeated for a maximum of 60 credits. May be elected more than once in the same term. Multiple Grading Patterns.

STDABRD 314. CGIS: Summer Arabic Language in Rabat, Morocco

(1 - 10 in the half-term). May be repeated for a maximum of 60 credits. May be elected more than once in the same term. Multiple Grading Patterns.

STDABRD 315. CGIS: Wildlife Management Studies in Rhotia, Tanzania

(1 - 15; 1 - 10 in the half-term). May be repeated for a maximum of 60 credits. May be elected more than once in the same term. Multiple Grading Patterns.

STDABRD 320. CGIS: Marine Resource Studies in The Turks and Caicos Islands

(1 - 15; 1 - 10 in the half-term). May be repeated for a maximum of 60 credits. May be elected more than once in the same term. Multiple Grading Patterns.

STDABRD 325. CGIS: Chinese Studies in Shanghai, China

(1 - 15; 1 - 10 in the half-term). May be repeated for a maximum of 60 credits. May be elected more than once in the same term. (Beijing, China). Su. Multiple Grading Patterns.

STDABRD 330. CGIS: Budapest Semesters in Mathematics in Budapest, Hungary

(1 - 15; 1 - 10 in the half-term). May be repeated for a maximum of 60 credits. May be elected more than once in the same term. Multiple Grading Patterns.

STDABRD 332. CGIS: Central European Studies at Charles University in Prague, Czech Republic (UPCES)

(1 - 15; 1 - 10 in the half-term). May be repeated for a maximum of 60 credits. May be elected more than once in the same term. (Prague, Czech Republic). F, W. Multiple Grading Patterns.

STDABRD 333. CGIS: Anglo-American University in Prague, Czech Republic

(1 - 15). May be repeated for a maximum of 60 credits. May be elected more than once in the same term. Multiple Grading Patterns.

STDABRD 335. CGIS: Computer Science and Tech Career Accelerator in Prague, Czech Republic

(1 - 15). May be repeated for a maximum of 60 credits. May be elected more than once in the same term. Multiple Grading Patterns.

STDABRD 336. CGIS: Summer Psychology in Prague, Czech Republic

(3 - 10 in the half-term). May be repeated for a maximum of 60 credits. May be elected more than once in the same term. Multiple Grading Patterns.

STDABRD 339. CGIS: Peace and Conflict Studies in Belgrade, Serbia

(1 - 15). May be repeated for a maximum of 60 credits. May be elected more than once in the same term. Multiple Grading Patterns.

STDABRD 340. CGIS: Liberal Arts in Athens, Greece

(1 - 15; 1 - 10 in the half-term). May be repeated for a maximum of 60 credits. May be elected more than once in the same term. Multiple Grading Patterns.

STDABRD 341. CGIS: Summer Study Abroad in Athens or the Greek Isles, Greece

(1 - 10 in the half-term). May be repeated for a maximum of 60 credits. May be elected more than once in the same term. Multiple Grading Patterns.

STDABRD 342. CGIS: Advanced Russian Language and Culture in Astana, Kazakhstan

For students with intermediate to advanced level of Russian. Applicants need two years of college-level Russian or equivalent. Students must

have an average of B or better in their major and language courses, and an overall average of B- or better. (3 - 15). (Lang Req). May be repeated for a maximum of 60 credits. May be elected more than once in the same term. Multiple Grading Patterns.

STDABRD 343. CGIS: University Study in Japan - Hitotsubashi University (Tokyo)
(1 - 15). May be repeated for a maximum of 60 credits. May be elected more than once in the same term. Multiple Grading Patterns.

STDABRD 345. CGIS: University Study in Germany - University of Tuebingen
3-4 semesters college-level German or equivalent. (1 - 15). May be repeated for a maximum of 60 credits. May be elected more than once in the same term. (Tübingen, Germany). F, W. Multiple Grading Patterns.

STDABRD 347. CGIS: University Study in Japan - Waseda University (Tokyo)
(1 - 15). May be repeated for a maximum of 60 credits. May be elected more than once in the same term. Multiple Grading Patterns.

STDABRD 348. CGIS: European Union in Freiburg, Germany
(1 - 15; 1 - 10 in the half-term). May be repeated for a maximum of 60 credits. May be elected more than once in the same term. Multiple Grading Patterns.

STDABRD 349. CGIS: Language and Culture in Hikone, Japan
One year proficiency in Japanese. (1 - 15). May be repeated for a maximum of 60 credits. May be elected more than once in the same term. (Hikone, Shiga, Japan). F, W. Multiple Grading Patterns.

STDABRD 351. CGIS: Academic Year in Freiburg, Germany
Minimum two years of college-level German. (1 - 15). May be repeated for a maximum of 60 credits. May be elected more than once in the same term. (Freiburg, Germany). F, W. Multiple Grading Patterns.

STDABRD 352. CGIS: University Study in Singapore - National University of Singapore
(1 - 15). May be repeated for a maximum of 60 credits. May be elected more than once in the same term. Multiple Grading Patterns.

STDABRD 353. CGIS: Classical Studies (ICCS) in Rome, Italy
(1 - 15). May be repeated for a maximum of 60 credits. May be elected more than once in the same term. (Rome, Italy). F, W. Multiple Grading Patterns.

STDABRD 354. CGIS: Metropolitan Studies in Berlin, Germany
(1 - 15). May be repeated for a maximum of 60 credits. May be elected more than once in the same term. Multiple Grading Patterns.

STDABRD 355. CGIS: Advanced French Language in Paris, France
5 semesters of college level French or equivalent. (1 - 15). May be repeated for a maximum of 60 credits. May be elected more than once in the same term. Multiple Grading Patterns.

STDABRD 356. CGIS: Tropical Island Biodiversity Studies in Isla Colon, Panama
(1 - 15; 1 - 10 in the half-term). May be repeated for a maximum of 60 credits. May be elected more than once in the same term. Multiple Grading Patterns.

STDABRD 358. CGIS: Conservation and Development Studies in Siem Reap, Cambodia
1 college-level course in Ecology, Biology, or Environmental Science/Studies. (1 - 15; 1 - 10 in the half-term). May be repeated for a maximum of 60 credits. May be elected more than once in the same term. Multiple Grading Patterns.

STDABRD 360. CGIS: Climate Studies in Puerto Natales, Chile
(1 - 15). May be repeated for a maximum of 60 credits. May be elected more than once in the same term. Multiple Grading Patterns.

STDABRD 362. CGIS: Intensive Russian Language and Culture in St. Petersburg, Russia
Minimum 4 semesters-college Russian (oral proficiency score of Intermediate or better). (1 - 15). May be repeated for a maximum of 60 credits. May be elected more than once in the same term. (St. Petersburg, Russia). F,W. Multiple Grading Patterns.

STDABRD 363. CGIS: Liberal Arts in Santiago, Chile
Successful completion of one of the following courses, or equivalent (with approval from your CGIS Intercultural Programs Advisor): SPANISH 275 & 276, or SPANISH 277, or RCLANG 324 Spanish language course within the past year recommended. (1 - 15). May be repeated for a maximum of 60 credits. May be elected more than once in the same term. (Santiago, Chile). F,W. Multiple Grading Patterns.

STDABRD 364. CGIS: University Study in the UK - University of Sussex
(1 - 15). May be repeated for a maximum of 60 credits. May be elected more than once in the same term. (Brighton, England). F,W. Multiple Grading Patterns.

STDABRD 365. CGIS: Development and Globalization in Khon Kaen, Thailand
(1 - 15). May be repeated for a maximum of 60 credits. May be elected more than once in the same term. Multiple Grading Patterns.

STDABRD 366. CGIS: Public Health in Santiago, Dominican Republic
College-level coursework in public health recommended. Minimum four semesters college-level Spanish, fulfilled by one of the following or equivalent: SPANISH 230, SPANISH 232, or RCLANG 294, RCLANG 314. (1 - 10 in the half-term). May be repeated for a maximum of 60 credits. May be elected more than once in the same term. (Santo Domingo, Dominican Republic). Su. Multiple Grading Patterns.

STDABRD 369. CGIS: Language and Culture in Varanasi, India
(1 - 15). May be repeated for a maximum of 60 credits. May be elected more than once in the same term. Multiple Grading Patterns.

STDABRD 370. CGIS: Culture, Ecology, and Community in Chiang Mai, Thailand
(1 - 15). May be repeated for a maximum of 60 credits. May be elected more than once in the same term. Multiple Grading Patterns.

STDABRD 373. CGIS: Environmental Studies in Paro, Bhutan
(1 - 15; 1 - 10 in the half-term). May be repeated for a maximum of 60 credits. May be elected more than once in the same term. Multiple Grading Patterns.

STDABRD 374. CGIS: University Study in South Korea - Yonsei University (Seoul)
(1 - 15). May be repeated for a maximum of 60 credits. May be elected more than once in the same term. (Seoul, South Korea). F, W, Su. Multiple Grading Patterns.

STDABRD 375. CGIS: International Development in Chiang Mai, Thailand
(1 - 15). May be repeated for a maximum of 60 credits. May be elected more than once in the same term. Multiple Grading Patterns.

STDABRD 376. CGIS: Summer at Yonsei - Seoul, South Korea
(1 - 10 in the half-term). May be repeated for a maximum of 60 credits. May be elected more than once in the same term. Multiple Grading Patterns.

STDABRD 377. CGIS: Intensive Chinese Language and Internship in Taipei, Taiwan
(1 - 15; 1 - 10 in the half-term). May be repeated for a maximum of 60 credits. May be elected more than once in the same term. Multiple Grading Patterns.

STDABRD 381. CGIS: Advanced Italian Language in Bologna, Italy
Minimum 5 semesters college-level Italian or equivalent (Winter); Minimum 4 semesters college-level Italian or equivalent (Academic Year). (1 - 15). May be repeated for a maximum of 60 credits. May be elected more than once in the same term. Multiple Grading Patterns.

STDABRD 382. CGIS: Humanities and Social Sciences in Sorrento, Italy
(3 - 15). May be repeated for a maximum of 60 credits. May be elected more than once in the same term. Multiple Grading Patterns.

STDABRD 384. CGIS: Language and Area Studies (Humanities and Social Sciences) in Rome, Italy
(1 - 15). May be repeated for a maximum of 60 credits. May be elected more than once in the same term. Multiple Grading Patterns.

STDABRD 385. CGIS: Multidisciplinary Studies in Perugia, Italy
(1 - 10 in the half-term). May be repeated for a maximum of 60 credits. May be elected more than once in the same term. Multiple Grading Patterns.

STDABRD 400. CGIS: Psychology, Social Sciences, and Humanities in Amsterdam, the Netherlands
(1 - 15). May be repeated for a maximum of 60 credits. May be elected more than once in the same term. Multiple Grading Patterns.

STDABRD 401. CGIS: Study Abroad in Scandinavia (DIS) in Copenhagen, Denmark
(1 - 15; 1 - 10 in the half-term). May be repeated for a maximum of 60 credits. May be elected more than once in the same term. Multiple Grading Patterns.

STDABRD 402. CGIS: University Study in the Netherlands - Leiden University
(1 - 15). May be repeated for a maximum of 60 credits. May be elected more than once in the same term. Multiple Grading Patterns.

STDABRD 404. CGIS: International Development in Quito, Ecuador
Minimum 4 semesters college-level Spanish or equivalent (students must have taken Spanish within the last academic year or verify advanced level proficiency). (1 - 15). May be repeated for a maximum of 60 credits. May be elected more than once in the same term. Multiple Grading Patterns.

STDABRD 405. CGIS: Brazilian Studies and Portuguese Language in Sao Paulo, Brazil
(1 - 15; 1 - 10 in the half-term). May be repeated for a maximum of 60 credits. May be elected more than once in the same term. Multiple Grading Patterns.

STDABRD 406. CGIS: Summer Study Abroad in Copenhagen, Denmark or Stockholm, Sweden (DIS)
(1 - 15; 1 - 10 in the half-term). May be repeated for a maximum of 60 credits. May be elected more than once in the same term. Multiple Grading Patterns.

STDABRD 407. CGIS: Climate Change and the Arctic in Isafjorour, Iceland
(1 - 15). May be repeated for a maximum of 60 credits. May be elected more than once in the same term. Multiple Grading Patterns.

STDABRD 430. CGIS: Banking, Finance, and Social Responsibility in Nyon, Switzerland
(1 - 15). May be repeated for a maximum of 60 credits. May be elected more than once in the same term. Multiple Grading Patterns.

STDABRD 432. CGIS: Global Health and Development Policy in Nyon, Switzerland
(1 - 15). May be repeated for a maximum of 60 credits. May be elected more than once in the same term. Multiple Grading Patterns.

STDABRD 433. CGIS: International Studies and Multilateral Diplomacy in Geneva, Switzerland
(1 - 15). May be repeated for a maximum of 60 credits. May be elected more than once in the same term. Multiple Grading Patterns.

STDABRD 434. CGIS: International Studies and Multilateral Diplomacy Summer Program in Geneva, Switzerland
(1 - 10 in the half-term). May be repeated for a maximum of 60 credits. May be elected more than once in the same term. Multiple Grading Patterns.

STDABRD 435. CGIS: Traditional Health and Healthcare Systems in Antananarivo, Madagascar
(1 - 10 in the half-term). May be repeated for a maximum of 60 credits. May be elected more than once in the same term. Multiple Grading Patterns.

STDABRD 436. CGIS: Peace and Conflict Studies in Kigali, Rwanda
(1 - 10 in the half-term). May be repeated for a maximum of 60 credits. May be elected more than once in the same term. Multiple Grading Patterns.

STDABRD 437. CGIS: Wildlife and Ecology in Kimana, Kenya
(1 - 15). May be repeated for a maximum of 60 credits. May be elected more than once in the same term. Multiple Grading Patterns.

STDABRD 438. CGIS: Health and Community in India, Jordan, South Africa, and the U.S.
(1 - 15). May be repeated for a maximum of 60 credits. May be elected more than once in the same term. Multiple Grading Patterns.

STDABRD 439. CGIS: Health and Community in Argentina, South Africa, Vietnam, and the U.S.
(1 - 15). May be repeated for a maximum of 60 credits. May be elected more than once in the same term. Multiple Grading Patterns.

STDABRD 440. CGIS: University Study in Ireland - University College Dublin
(1 - 15). May be repeated for a maximum of 60 credits. May be elected more than once in the same term. Multiple Grading Patterns.

STDABRD 441. CGIS: STEM Summer Research Program in Dublin, Ireland
(1 - 15; 1 - 10 in the half-term). May be repeated for a maximum of 60 credits. May be elected more than once in the same term. Multiple Grading Patterns.

STDABRD 442. CGIS: Dublin Parliamentary Internship in Dublin, Ireland
(3 - 15). May be repeated for a maximum of 60 credits. May be elected more than once in the same term. Multiple Grading Patterns.

STDABRD 443. CGIS: Summer Dublin Internship Program in Dublin, Ireland
(3 - 10 in the half-term). May be repeated for a maximum of 60 credits. May be elected more than once in the same term. Multiple Grading Patterns.

STDABRD 445. CGIS: STEM Summer Research Program in Glasgow, Scotland
(1 - 10 in the half-term). May be repeated for a maximum of 60 credits. May be elected more than once in the same term. Multiple Grading Patterns.

STDABRD 446. CGIS: Africa in the 21st Century in Accra, Ghana
(1 - 15). May be repeated for a maximum of 60 credits. May be elected more than once in the same term. Multiple Grading Patterns.

STDABRD 450. CGIS: University Study in the UK - University of Cambridge, Pembroke College
(1 - 1.5). May be repeated for a maximum of 60 credits. May be elected more than once in the same term. Multiple Grading Patterns.

STDABRD 451. CGIS: University Study in the UK - University of Oxford, Hertford College
(1 - 15). May be repeated for a maximum of 60 credits. May be elected more than once in the same term. Multiple Grading Patterns.

STDABRD 452. CGIS: University Study in the UK - University of Oxford, St. Peter's College

(1 - 10 in the half-term). May be repeated for a maximum of 60 credits. May be elected more than once in the same term. (Oxford, England). *Su. Multiple Grading Patterns.*

STDABRD 455. CGIS: University Study in the UK - University of Westminster, London

(1 - 15; 1 - 10 in the half-term). May be repeated for a maximum of 60 credits. May be elected more than once in the same term. *Multiple Grading Patterns.*

STDABRD 456. CGIS: University Study in the UK - London School of Economics and Political Science

(1 - 15). May be repeated for a maximum of 60 credits. May be elected more than once in the same term. (London, England). *F,W. Multiple Grading Patterns.*

STDABRD 457. CGIS: STEM Summer Research Program in London, United Kingdom (RVC London)

(1 - 15). May be repeated for a maximum of 60 credits. May be elected more than once in the same term. *Multiple Grading Patterns.*

STDABRD 458. CGIS: University Study in the UK - University of St. Andrews

(1 - 15). May be repeated for a maximum of 60 credits. May be elected more than once in the same term. (St Andrews, Scotland). *F,W. Multiple Grading Patterns.*

STDABRD 460. CGIS: Study Abroad in Scandinavia (DIS) in Stockholm, Sweden

(1 - 15; 1 - 10 in the half-term). May be repeated for a maximum of 60 credits. May be elected more than once in the same term. *Multiple Grading Patterns.*

STDABRD 461. CGIS: University Study in Sweden - Uppsala University

(1 - 15). May be repeated for a maximum of 60 credits. May be elected more than once in the same term. (Uppsala, Sweden). *F,W. Multiple Grading Patterns.*

STDABRD 462. CGIS: University Study in Sweden - Stockholm University

(1 - 15). May be repeated for a maximum of 60 credits. May be elected more than once in the same term. *Multiple Grading Patterns.*

STDABRD 466. CGIS: University Study in Japan - Kyushu University

(1 - 15). May be repeated for a maximum of 60 credits. May be elected more than once in the same term. (Fukuoka, Japan). *F,W. Multiple Grading Patterns.*

STDABRD 468. CGIS: University Study in Australia - University of New South Wales (Sydney)

(1 - 15). May be repeated for a maximum of 60 credits. May be elected more than once in the same term. (Sydney, Australia). *F,W. Multiple Grading Patterns.*

STDABRD 480. CGIS: University Study in the UK - King's College London

(1 - 15). May be repeated for a maximum of 60 credits. May be elected more than once in the same term. *Multiple Grading Patterns.*

STDABRD 481. CGIS: University Study in the UK - Queen Mary University in London

(1 - 15). May be repeated for a maximum of 60 credits. May be elected more than once in the same term. (London, England). *F,W. Multiple Grading Patterns.*

STDABRD 483. CGIS: University Study in the UK - University College London

(1 - 15). May be repeated for a maximum of 60 credits. May be elected more than once in the same term. (London, England). *F,W. Multiple Grading Patterns.*

STDABRD 486. CGIS: University Study in France - Sciences Po Paris

Minimum 6 semesters college-level French (or the equivalent). Significant course work in political science or other social science. (1 - 15). May be repeated for a maximum of 60 credits. May be elected more than once in the same term. (Paris, France). *F,W. Multiple Grading Patterns.*

STDABRD 487. CGIS: University Study in South Africa - University of Cape Town

(1 - 15). May be repeated for a maximum of 60 credits. May be elected more than once in the same term. (Cape Town, South Africa). *F,W. Multiple Grading Patterns.*

STDABRD 488. CGIS: Public Health in Cape Town, South Africa

(1 - 10 in the half-term). May be repeated for a maximum of 60 credits. May be elected more than once in the same term. *Multiple Grading Patterns.*

STDABRD 489. CGIS: University Study in Australia - University of Melbourne

(1 - 15). May be repeated for a maximum of 75 credits. May be elected more than once in the same term. (Melbourne, Australia). *F,W. Multiple Grading Patterns.*

STDABRD 490. CGIS: Health, Culture and Development in Cape Town, South Africa

(1 - 15). May be repeated for a maximum of 60 credits. May be elected more than once in the same term. *Multiple Grading Patterns.*

STDABRD 494. CGIS: Language and Culture in Buenos Aires, Argentina

Consent of department required. (1 - 15). May be repeated for a maximum of 60 credits. May be elected more than once in the same term. *Multiple Grading Patterns.*

STDABRD 496. CGIS: Advanced Spanish Language in Buenos Aires, Argentina

Minimum 4 semesters college-level Spanish by program start date, fulfilled by: SPANISH 232, SPANISH 230, RCLANG 294, RCLANG 314, or equivalent. (1 - 15). May be repeated for a maximum of 60 credits. May be elected more than once in the same term. *Multiple Grading Patterns.*

LSA History

Courses In History (HISTORY)

HISTORY 101 / INTLSTD 205. What is History?

(4; 3 in the half-term). (HU). (R&E). May not be repeated for credit.

HISTORY 102. A History of the Present

(4; 3 in the half-term). (HU). May not be repeated for credit.

HISTORY 103. Introduction to History in the Humanities

(4; 3 in the half-term). (HU). May not be repeated for credit.

HISTORY 104. Introduction to History in the Social Sciences

(4; 3 in the half-term). (SS). May not be repeated for credit.

HISTORY 105. Introduction to Religion

(4; 3 in the half-term). (ID). May not be repeated for credit.

HISTORY 195. The Writing of History

(4). (FYWR). May not be repeated for credit. This course may not be included in a History major. F.

HISTORY 196. First Year Seminar in Social Sciences

Enrollment restricted to first-year students, including those with sophomore standing. (3). (SS). May not be repeated for credit.

HISTORY 197. First-Year Seminar in the Humanities

Enrollment restricted to first-year students, including those with sophomore standing. (3). (HU). May not be repeated for credit.

HISTORY 200. Ancient Greece

(4). (HU). May not be repeated for credit.

HISTORY 201. Rome

(4). (HU). May not be repeated for credit. W.

HISTORY 202. Doing History

(3). May not be repeated for credit. HISTORY 202 is a required gateway seminar for history concentrators, to be taken the academic term after declaring the concentration.

HISTORY 203 / ASIAN 200. Introduction to Japanese Civilization: Japan Before Today

(3). (HU). May not be repeated for credit.

HISTORY 204 / ASIAN 204. East Asia: Early Transformations

(4; 3 in the half-term). (HU). (R&E). May not be repeated for credit.

HISTORY 205 / ASIAN 205. Modern East Asia

(4; 3 in the half-term). (SS). (R&E). May not be repeated for credit.

HISTORY 206 / ASIAN 206. Indian Civilization

(4; 3 in the half-term). (HU). May not be repeated for credit.

HISTORY 207 / ASIAN 207. Southeast Asian Civilization

(4; 3 in the half-term). (SS). (R&E). May not be repeated for credit.

HISTORY 208. Sports in World History

(4; 3 in the half-term). (HU). May not be repeated for credit.

HISTORY 209 / INTLSTD 209 / RELIGION 209 / STS 209. Death, Immortality, and Afterlife

(4; 3 in the half-term). (ID). May not be repeated for credit.

HISTORY 210 / MEMS 210. Early Medieval Europe, 300-1000

(4; 3 in the half-term). (SS). (R&E). May not be repeated for credit. F.

HISTORY 211 / MEMS 211. Later Medieval Europe, 1000-1500

(4). (SS). (R&E). May not be repeated for credit. W.

HISTORY 216. War and Society in the 20th Century: World War I

(3 - 4; 3 in the half-term). (HU). May not be repeated for credit.

HISTORY 217. Topics in the History of Human Rights

(3 - 4; 3 in the half-term). (ID). May be repeated for a maximum of 10 credits. May be elected more than once in the same term.

HISTORY 219 / ASIAN 210. The Philippines: Culture and History

(3). (HU). (R&E). May not be repeated for credit.

HISTORY 222 / JUDAIC 224 / WGS 224. Sex and Sexuality in Jewish History and Culture

(3). (HU). May not be repeated for credit.

HISTORY 227. The Rise and Fall of the British Empire

(4). May not be repeated for credit.

HISTORY 228 / ANTHRCUL 317 / POLSCI 334 / REEES 397 / SLAVIC 397 / SOC 317. Communism and Capitalism in Eastern Europe

(4). (SS). May not be repeated for credit. No credit granted to those who have completed or are enrolled in REEES 396 or SLAVIC 396 or POLSCI 396 or HISTORY 333 or SOC 393.

HISTORY 229 / ANTHRCUL 226. Introduction to Historical Anthropology

(3). (SS). May not be repeated for credit.

HISTORY 230. Humanities Topics in History

(3 - 4; 3 in the half-term). (HU). May be elected five times for credit.

HISTORY 231. Social Science Topics in History

(3 - 4; 3 in the half-term). (SS). May be elected five times for credit.

HISTORY 234 / STS 234. History of Medicine in the Western World from the 18th Century to the Present

(4; 3 in the half-term). (ID). May not be repeated for credit.

HISTORY 235 / POLSCI 316. History of Law and Social Justice

(3 - 4; 3 in the half-term). (SS). May not be repeated for credit.

HISTORY 236 / ENVIRON 236. Environment and History in Preindustrial Europe

(3). (ID). May not be repeated for credit.

HISTORY 237 / ENVIRON 237 / STS 237. Global Environmental History

(4; 3 in the half-term). (ID). May not be repeated for credit.

HISTORY 239. The World Before 1492

(4; 3 in the half-term). (HU). May not be repeated for credit.

HISTORY 240. The World Since 1492

(4; 3 in the half-term). (SS). (R&E). May not be repeated for credit. Meets pre-1800 and transregional requirements in History.

HISTORY 241 / ISLAM 241. America and Middle Eastern Wars

(4). (SS). May not be repeated for credit.

HISTORY 242 / MIDEAST 201 / STS 202. Madness, Medicine, and Magic in the Middle East

(4). (HU). May not be repeated for credit.

HISTORY 244 / JUDAIC 244 / MENAS 244 / MIDEAST 284. The History of the Arab-Israeli Conflict

(4; 3 in the half-term). (SS). (R&E). May not be repeated for credit.

HISTORY 246 / AAS 246. Africa to 1850

(4; 3 in the half-term). (SS). May not be repeated for credit.

HISTORY 247 / AAS 247 / INTLSTD 247. Modern Africa
(4; 3 in the half-term). (SS). (R&E). May not be repeated for credit.

HISTORY 248 / ASIAN 248 / RELIGION 248. Jesus Comes to Asia: Conversion and its Consequences in Asia
(4). (HU). (R&E). May not be repeated for credit.

HISTORY 249 / ASIAN 274. Introduction to Korean Civilization
(3). (HU). May not be repeated for credit.

HISTORY 251 / ASIAN 241. The Chinese Renaissance: Cultural Transformations in Eleventh-Century China
(3). (ID). May not be repeated for credit.

HISTORY 252 / ASIAN 260. Introduction to Chinese Civilization
(4). (HU). (R&E). May not be repeated for credit. No assumed knowledge of Chinese history, culture, or language required.

HISTORY 253 / MEMS 253. Europe, 300-1648: The Rise and Fall of the Middle Ages
(4; 3 in the half-term). (SS). May not be repeated for credit.

HISTORY 254. Europe, 1648-Present: Legacies of War, Empire, and Revolution
(4; 3 in the half-term). (SS). May not be repeated for credit.

HISTORY 255 / ASIAN 259. Modern India and South Asia
(4; 3 in the half-term). (HU). (R&E). May not be repeated for credit.

HISTORY 258 / JUDAIC 210. Sources of Jewish History
(3). (HU). May not be repeated for credit.

HISTORY 260. United States to 1865
(4; 3 in the half-term). (SS). May not be repeated for credit.

HISTORY 261. United States, 1865 to the Present
(4; 3 in the half-term). (SS). (R&E). May not be repeated for credit.

HISTORY 265 / PSYCH 265 / STS 265. Minds and Brains in America
(4; 3 in the half-term). (HU). May not be repeated for credit.

HISTORY 266. Twentieth-Century American Wars as Social and Personal Experience
(3). (HU). May not be repeated for credit.

HISTORY 270 / AMCULT 270. Religion in America
(4). (HU). May not be repeated for credit.

HISTORY 272 / AAS 262. 20th Century African-American Social Movements
(4; 3 in the half-term). (R&E). May not be repeated for credit.

HISTORY 273 / MIDEAST 246. History and Archaeology of Ancient Turkey to the Conquests of Alexander the Great
Previous knowledge in the history of ancient Western Asia. (3). (HU). May not be repeated for credit.

HISTORY 274 / AAS 230. Survey of Afro-American History I
AAS 111. (3). (SS). May not be repeated for credit.

HISTORY 275 / AAS 231. Survey of Afro-American History, II
AAS 111. (3). (SS). May not be repeated for credit.

HISTORY 276 / JUDAIC 261 / MIDEAST 277. Lost Books That Rewrote the Bible
(3). (HU). May not be repeated for credit.

HISTORY 277 / CLCIV 277 / ENVIRON 277. Environmental History of the Ancient Mediterranean
(3). (HU). May not be repeated for credit.

HISTORY 280. The Civil War Era in U.S. History
(4; 3 in the half-term). (HU). May not be repeated for credit.

HISTORY 281 / AMCULT 281. How to Become a Billionaire: Business Tycoons and the Development of Western Capitalism
(4; 3 in the half-term). (SS). May not be repeated for credit.

HISTORY 282. A History of the Economy
(4; 3 in the half-term). (SS). May not be repeated for credit.

HISTORY 283. The Office: Business, Technology and the Shape of Work in the West
(4; 3 in the half-term). (ID). May not be repeated for credit.

HISTORY 285 / RCSSCI 275 / STS 285. Science, Technology, Medicine, and Society
(4). (SS). May not be repeated for credit.

HISTORY 289 / AMCULT 289. The United States in the World
(4; 3 in the half-term). (SS). May not be repeated for credit.

HISTORY 291. A World History of Happiness: Care of the Self from the Greeks to the Sufis
(4; 3 in the half-term). (HU). May not be repeated for credit.

HISTORY 292 / CLCIV 392 / STS 392. Ancient Medicine in Greece & Rome
(4). (HU). May not be repeated for credit.

HISTORY 293 / MIDEAST 243. Ancient Egypt and its World
(4; 3 in the half-term). (HU). May not be repeated for credit.

HISTORY 294. Public History
(1 - 3). May be elected four times for credit. May be elected more than once in the same term.

HISTORY 296 / STS 296 / WGS 296. My Body, My Choice: A History of Reproductive Medicine in the U.S.
(4; 3 in the half-term). May not be repeated for credit.

HISTORY 297 / ASIAN 265. Health and Disease in Chinese History
No credit in HISTORY 230 with the topic: "Health and Disease in Chinese History: From Acupuncture to the Nobel Prize". (Prerequisites enforced at registration.) (3). (HU). May not be repeated for credit.

HISTORY 302 / CLCIV 302. The Roman Republic
(4). (HU). May not be repeated for credit.

HISTORY 303 / CLCIV 303 / WGS 303. Women in the Ancient Mediterranean
(3). (HU). May not be repeated for credit.

HISTORY 304 / INTLSTD 304 / LACS 304 / WGS 306. Maternal and Infant Health in Latin American History
(3). (ID). May not be repeated for credit.

HISTORY 305 / PSYCH 321 / STS 305. American Addictions
(4; 3 in the half-term). (ID). May not be repeated for credit.

HISTORY 306 / ISLAM 319 / MIDEAST 319. History of the Ottoman Empire: The "Classical Age", (ca. 1300-1600)
Not available to students who have completed AAPTIS 291 (#16) or HISTORY 303 (# 10) when taught with the topic "Ten Sultans, One Empire: The Ottoman Classical Age". (Prerequisites enforced at registration.) (3). (HU). May not be repeated for credit.

HISTORY 307 / ISLAM 320 / MIDEAST 320. History of the Ottoman Empire: The "Post-Classical Age", (ca. 1600-1922)
Not available to students who have completed AAPTIS 291 (#17) or HISTORY 303 (# 13) when taught with the topic "The Ottoman Empire in the 'Post Classical Age'". (Prerequisites enforced at registration.) (3). (HU). May not be repeated for credit.

HISTORY 308 / MIDEAST 336 / RELIGION 350. The Earliest Christians
(4; 3 in the half-term). (HU). May not be repeated for credit.

HISTORY 309. After Alexander: The Hellenistic Age in the Mediterranean and the Near East
HISTORY 200 or 201. (3). (HU). (R&E). May not be repeated for credit.

HISTORY 312 / POLSCI 362. History of European Integration
(4; 3 in the half-term). (ID). May not be repeated for credit.

HISTORY 314 / FRENCH 345. Empire, War, and Modernity: France and the World in the 20th Century
(4; 3 in the half-term). (SS). May not be repeated for credit.

HISTORY 315 / AMCULT 308. American Constitutional History
Students should have a good general knowledge of United States History, such as that acquired in HISTORY 260 and 261, or equivalent rigorous high school history courses. (4; 3 in the half-term). (SS). (R&E). May not be repeated for credit.

HISTORY 318. Europe in the Era of Total War, 1870-1945
(4; 3 in the half-term). (SS). May not be repeated for credit. F.

HISTORY 320. Britain, 1901-1939: Culture and Politics
(4; 3 in the half-term). (HU). (R&E). May not be repeated for credit.

HISTORY 321. Culture and Politics in Britain Since 1945
(4; 3 in the half-term). (HU). May not be repeated for credit.

HISTORY 322 / GERMAN 322 / JUDAIC 322. The Origins of Nazism
(4). (HU). (R&E). May not be repeated for credit. Taught in English.

HISTORY 323 / JUDAIC 324 / MEMS 323. Conversion and Inquisition in Early Modern Spain
(3). (HU). May not be repeated for credit.

HISTORY 325 / ASIAN 324 / ISLAM 325 / MEMS 325 / MIDEAST 375 / RELIGION 325. The History of Islam in South Asia
(4). (HU). (R&E). May not be repeated for credit.

HISTORY 326 / ITALIAN 314. Modern Italy: 1815 to Present
(3). (HU). May not be repeated for credit.

HISTORY 327 / WGS 327. The History of Sexuality
(4; 3 in the half-term). (HU). May not be repeated for credit.

HISTORY 328. Humanities Topics in History
(3 - 4; 3 in the half-term). (HU). May be elected five times for credit.

HISTORY 329. Social Science Topics in History
(3 - 4; 3 in the half-term). (SS). May be elected five times for credit.

HISTORY 331 / POLISH 331. Poland in the Modern World
(4; 3 in the half-term). (HU). (R&E). May not be repeated for credit.

HISTORY 332 / POLSCI 395 / REEES 395 / SLAVIC 395 / SOC 392. Russia and the Soviet Union: Reform, Revolution, and the Socialist Experiment
(4; 3 in the half-term). (SS). May not be repeated for credit. May not be counted in a Slavic Department academic minor. F.

HISTORY 333 / RUSSIAN 375. Literature and Empire: Nineteenth-Century Russian Prose
(3). (HU). (R&E). May not be repeated for credit.

HISTORY 337 / AAS 337 / WGS 337. Black Women in the U.S., Part II: Contemporary Perspective in the 20th and 21st Centuries
AAS 201. (3). (SS). May not be repeated for credit. No credit granted to those who have completed or are enrolled in AAS 336.

HISTORY 338 / AMCULT 338 / NATIVEAM 338. Topics in Native American History
(3 - 4; 3 in the half-term). (HU). May not be repeated for credit.

HISTORY 339. Heroes and Superheroes in U.S. Popular Culture
(3). (HU). May not be repeated for credit.

HISTORY 340 / ASIAN 340 / MENAS 340 / MIDEAST 340 / REEES 340. From Genghis Khan to the Taliban: Modern Central Asia
(4; 3 - 4 in the half-term). (SS). (R&E). May not be repeated for credit.

HISTORY 341 / POLSCI 397. Nations and Nationalism
(4). (SS). May not be repeated for credit.

HISTORY 342 / AAS 341 / WGS 340. Black Queer Histories
At least one course in Women's and Gender Studies, Afroamerican and African Studies, or History. (3). (HU). May not be repeated for credit.

HISTORY 343 / AMCULT 341. Rise of the Corporation
(3). (SS). May not be repeated for credit.

HISTORY 345 / RCSTP 357. History and Theory of Punishment
(4). (SS). May not be repeated for credit.

HISTORY 346 / AMCULT 348. History of American Radicalism
(4; 3 in the half-term). (SS). May not be repeated for credit.

HISTORY 347 / ANTHRCUL 346. Latin America: The Colonial Period
(1 - 5; 3 in the half-term). (SS). (R&E). May not be repeated for credit.

HISTORY 348 / INTLSTD 348. Latin America: The National Period
(1 - 5; 3 in the half-term). (SS). (R&E). May not be repeated for credit.

HISTORY 351 / CLCIV 376. Emperors of Rome
(4; 3 in the half-term). (HU). May not be repeated for credit.

HISTORY 353 / AMCULT 366 / WGS 366. Sex and Sexuality in U.S. Popular Culture
(3). (HU). May not be repeated for credit.

HISTORY 354 / ASIAN 354. Modern China
(4; 3 in the half-term). (SS). May not be repeated for credit.

HISTORY 355 / AAS 355 / ANTHRCUL 355. Health and Illness in African Worlds
(4; 3 in the half-term). (R&E). May not be repeated for credit.

HISTORY 356 / RCSTP 356. Histories of Race and Law
Previous coursework in US history, African American studies, or Ethnic Studies is recommended. (3). (SS). May not be repeated for credit.

HISTORY 357. Topics in African History
(3). May be elected three times for credit.

HISTORY 361. Culture Wars are Nothing New: U.S. Intellectual History, 1750-1940
(3 - 4). (HU). May not be repeated for credit.

HISTORY 362 / AAS 346 / ENGLISH 389. Literature in African History
(3). (HU). (R&E). May not be repeated for credit.

HISTORY 363. The History of Modern Mexico, 1810-Present
(4; 3 in the half-term). (HU). May not be repeated for credit.

HISTORY 366. Crime and Drugs in Modern America
(4; 3 in the half-term). (SS). May not be repeated for credit.

HISTORY 367 / AMCULT 367 / NATIVEAM 367. American Indian History
(4; 3 in the half-term). (SS). (R&E). May not be repeated for credit.

HISTORY 372 / RCSTP 316. Law and Social Policy
(3). (SS). May not be repeated for credit.

HISTORY 373 / AMCULT 373 / LATINOAM 373 / NATIVEAM 373. History of the U.S. West
(4; 3 in the half-term). (HU). May not be repeated for credit.

HISTORY 374 / AMCULT 374. The Politics and Culture of the "Sixties"
(4; 3 in the half-term). (SS). (R&E). May not be repeated for credit.

HISTORY 375 / WGS 375. A History of Witchcraft: The 1692 Salem Trials in Historical and Cross-Cultural Perspective
(4). (HU). May not be repeated for credit.

HISTORY 376 / STS 376. Epidemics: Plagues and Cultures from the Black Death to the Present
(4; 3 in the half-term). (SS). May not be repeated for credit.

HISTORY 377 / AMCULT 315 / LATINOAM 315. Latino/a/e History as U.S. History
(3 - 4). (HU). (R&E). May not be repeated for credit. No credit granted to those who have completed or are enrolled in AMCULT 312 or HISTORY 312.

HISTORY 379 / FTVM 379 / HISTART 379 / JUDAIC 379. Jewish Photographers Picture the Modern World
(3). (HU). May not be repeated for credit. Rackham credit requires additional work.

HISTORY 384 / JUDAIC 388. Antisemitism and Philosemitism: Jews in Myth and Thought
(3). (HU). (R&E). May not be repeated for credit.

HISTORY 386 / GERMAN 391 / JUDAIC 386. The Holocaust
(4). (SS). (R&E). May not be repeated for credit.

HISTORY 387 / AMCULT 387 / JUDAIC 387. History of American Jews
(4; 3 in the half-term). (HU). May not be repeated for credit.

HISTORY 388 / AAS 323 / WGS 323. Black Feminist Thought and Practice
(3). (HU). May not be repeated for credit.

HISTORY 389 / ARMENIAN 389 / MIDEAST 389. From Natives to Foreigners: Armenians in Turkey and the Diaspora
(3). (SS). (R&E). May not be repeated for credit.

HISTORY 390. Topics Mini-Course
(1 - 2). May be elected three times for credit.

HISTORY 392. Topics in Asian History
(3). May be elected twice for credit.

HISTORY 394 / ISLAM 394 / MIDEAST 394. History of the Turkish Republic
(3). (HU). May not be repeated for credit.

HISTORY 395. Reading Course
Consent of department required. Open only to History concentrators. (1 - 4; 1 - 3 in the half-term). (INDEPENDENT). May be repeated for a maximum of 8 credits. A maximum of eight credits can be elected through HISTORY 394 and 395. For the purposes of history concentration credit, no more than eight credits may be elected from HISTORY 395 (Independent Study).

HISTORY 396 / AAS 395 / GERMAN 396. Germany and the Black Diaspora
(3). (HU). (R&E). May not be repeated for credit.

HISTORY 397 / MIDEAST 387 / WGS 397. Religion and Politics in Contemporary Iran
(3). (ID). May not be repeated for credit.

HISTORY 399. Topics in History
(3 - 4; 3 in the half-term). May be elected five times for credit.

HISTORY 402. Problems in Roman History
(3). May not be repeated for credit.

HISTORY 405 / CLCIV 476 / RELIGION 476. Pagans and Christians in the Roman World
(4; 3 in the half-term). May not be repeated for credit.

HISTORY 407. Advanced Study in Comparative and Transnational History
(3 - 4; 3 in the half-term). May be elected three times for credit. May be elected more than once in the same term.

HISTORY 411 / POLSCI 319. The Politics of Civil Liberties and Civil Rights

POLSCI 111. (4). (R&E). May not be repeated for credit.

HISTORY 415 / ASIAN 415. Law and Society in Late Imperial and Modern China

Junior or senior standing. No prior knowledge of China or Chinese required. (3). May not be repeated for credit. Rackham credit requires additional work.

HISTORY 416 / GERMAN 401. Nineteenth-Century German and European Intellectual History

(3). May not be repeated for credit. Taught in English.

HISTORY 417 / GERMAN 402. Twentieth-Century German and European Thought

(3). May not be repeated for credit. Taught in English. German concentrators must be concurrently enrolled in GERMAN 404.

HISTORY 418 / GERMAN 418 / WGS 418. The German Discovery of Sex

No credit in GERMAN 449 or HISTORY 481 or WGS 431 with the topic "The German Discovery of Sex.". (Prerequisites enforced at registration.) (3). May not be repeated for credit.

HISTORY 421 / AAS 421 / LACS 421 / RELIGION 421. Religions of the African Diaspora

(3). (R&E). May not be repeated for credit. Rackham credit requires additional work.

HISTORY 426 / AMCULT 426. Violence and (De)Colonization

(3). May not be repeated for credit. Rackham credit requires additional work.

HISTORY 430 / ANTHRCUL 430 / MIDEAST 480. History, Memory, and Silence in the Middle East

(3). May not be repeated for credit.

HISTORY 432. Medieval and Early Modern Russia

(3). May not be repeated for credit.

HISTORY 433. Russia Under the Tsars: From Peter the Great to the Revolutions of 1917

(3). May not be repeated for credit.

HISTORY 434 / POLSCI 434. Russia/USSR in the 20th and 21st Centuries: War, Revolution, and Reform

(4). May not be repeated for credit. W.

HISTORY 436 / CLCIV 436. From Caesar to Augustus: Rome's Triumviral Period

HIST 201, CLCIV 302 / HIST 302, or some other equivalent introduction to Roman history (approved by the instructor) are required. (3). May not be repeated for credit.

HISTORY 438 / ASIAN 408 / WGS 408. Gender and Health in East Asia: Historical and Contemporary Perspectives

(3). May not be repeated for credit.

HISTORY 439 / AAS 438 / WGS 439. Black Intimacies in the U.S.

At least one class in Women's and Gender Studies, History, or Afroamerican and African Studies. (3). May not be repeated for credit.

HISTORY 441. Topics in History: HistoryLabs I

(3 - 4; 3 in the half-term). May be elected three times for credit. May be elected more than once in the same term.

HISTORY 443 / ISLAM 443 / MIDEAST 487. Modern Middle East History

(4). May not be repeated for credit.

HISTORY 444 / AMCULT 438 / JUDAIC 440. A History of Jews and Social Justice in the United States

No credit granted to those who have completed or are enrolled in JUDAIC 417: Topics in Judaic Studies, topic #11 "A History of Jews and Social Justice in the US". (Prerequisites enforced at registration.) (3). May not be repeated for credit. Rackham credit requires additional work.

HISTORY 445. Topics in History

(3). May be elected three times for credit.

HISTORY 447 / MEMS 442 / SCAND 442. The Icelandic Sagas: Vikings, Women, and Vengeance

Upperclass standing or permission of instructor. (3). May not be repeated for credit.

HISTORY 449. Topics in Middle Eastern History

(3). May not be repeated for credit.

HISTORY 450 / ASIAN 450. Japan to 1700: Origin Myth to Shogun Dynasty

(3). May not be repeated for credit. Rackham credit requires additional work.

HISTORY 461 / AMCULT 462. The American Revolution

(4; 3 in the half-term). May not be repeated for credit. Rackham credit requires additional work.

HISTORY 468. Topics in U.S. History

(3). May be elected three times for credit.

HISTORY 469. Precolonial Southeast Asia

(3). May not be repeated for credit.

HISTORY 472. Topics in Asian History

(3). May be elected three times for credit.

HISTORY 473 / AAS 473 / LACS 483. Brazil: History and Culture

(3). May not be repeated for credit. Rackham credit requires additional work.

HISTORY 474 / ANTHRCUL 454 / WGS 454. What is Marriage?: Histories and Structures of Marital Institutions

One course in Women's and Gender Studies, Cultural Anthropology, or History. (3). May not be repeated for credit. Rackham credit requires additional work.

HISTORY 476 / BA 476. American Business History

Junior, senior, or graduate standing. (3). May not be repeated for credit.

HISTORY 478. Topics in Latin American History

(3). May not be repeated for credit.

HISTORY 481. Topics in European History

(3). May be elected three times for credit.

HISTORY 487. Conversions and Christianities in the Early Modern World and Beyond

(3). May not be repeated for credit.

HISTORY 489. Roman Catholicism and the Modern World

(4; 3 in the half-term). May not be repeated for credit.

HISTORY 491. Topics in History: HistoryLabs II

(3 - 4; 3 in the half-term). May not be repeated for credit.

HISTORY 496. History Colloquium

Consent of department required. HISTORY 202. (4; 3 in the half-term). May be repeated for a maximum of 8 credits.

HISTORY 497. History Colloquium

Consent of department required. HISTORY 202. (4; 3 in the half-term). May be repeated for a maximum of 8 credits.

HISTORY 498. Junior Honors Colloquium

Consent of instructor required. Honors students; junior standing, and permission of instructor. (4; 3 in the half-term). May not be repeated for credit.

HISTORY 499. Senior Honors Colloquium

Consent of instructor required. Honors students, HISTORY 498, senior standing. (1 - 6). (INDEPENDENT). May be repeated for a maximum of 6 credits.

HISTORY 664 / MIDEAST 601. Studies in the Modern Middle East

(3). May not be repeated for credit.

Courses In Medieval and Early Modern Studies (MEMS)**MEMS 210 / HISTORY 210. Early Medieval Europe, 300-1000**

(4; 3 in the half-term). (SS). (R&E). May not be repeated for credit. F.

MEMS 211 / HISTORY 211. Later Medieval Europe, 1000-1500

(4). (SS). (R&E). May not be repeated for credit. W.

MEMS 250 / HISTART 250. Italian Renaissance Art

(4). (HU). May not be repeated for credit.

MEMS 253 / HISTORY 253. Europe, 300-1648: The Rise and Fall of the Middle Ages

(4; 3 in the half-term). (SS). May not be repeated for credit.

MEMS 260. Special Topics in Medieval and Early Modern Studies

(3). May be elected twice for credit. May be elected more than once in the same term.

MEMS 323 / HISTORY 323 / JUDAIC 324. Conversion and Inquisition in Early Modern Spain

(3). (HU). May not be repeated for credit.

MEMS 325 / ASIAN 324 / HISTORY 325 / ISLAM 325 / MIDEAST 375 / RELIGION 325. The History of Islam in South Asia

(4). (HU). (R&E). May not be repeated for credit.

MEMS 333 / ITALIAN 333. Dante's Divine Comedy

A knowledge of Italian is not required. (3). (HU). May not be repeated for credit. Taught in English.

MEMS 345 / HISTART 345. Introduction to Medieval Architecture

(3). (HU). May not be repeated for credit.

MEMS 348 / HISTART 348. The Medieval Book

(3). (HU). May not be repeated for credit.

MEMS 350 / ENGLISH 350. Literature in English to 1660

(3). (HU). May not be repeated for credit. F.

MEMS 355 / HISTART 355. The Miraculous and the Diabolical in Late Medieval and Early Modern Europe

(3). (HU). May not be repeated for credit.

MEMS 360. Special Topics in Medieval and Early Modern Studies

(3). May be elected twice for credit. May be elected more than once in the same term.

MEMS 367 / ENGLISH 367. Shakespeare's Principal Plays

(3 - 4; 3 in the half-term). (HU). May not be repeated for credit.

MEMS 375 / GERMAN 375 / SCAND 375. Celtic and Nordic Mythology

(3). (HU). May not be repeated for credit. Taught in English.

MEMS 391 / RUSSIAN 391. Art, Culture, and Literature in Old Russia

(3). (HU). May not be repeated for credit. No credit granted to those who have completed or are enrolled in RUSSIAN 551.

MEMS 411. Special Topics

(1 - 3). May not be repeated for credit.

MEMS 434 / ISLAM 434 / MIDEAST 434. Shahnameh: Iranian Myth, Epic, and History

(3). May not be repeated for credit.

MEMS 440 / LATIN 435. Postclassical Latin

Two years of college Latin. (3; 2 in the half-term). May not be repeated for credit.

MEMS 442 / HISTORY 447 / SCAND 442. The Icelandic Sagas: Vikings, Women, and Vengeance

Upperclass standing or permission of instructor. (3). May not be repeated for credit.

MEMS 465 / ENGLISH 465. Chaucer: The Canterbury Tales

(3). May not be repeated for credit.

MEMS 490. Directed Reading

Permission of instructor. (1 - 4). (INDEPENDENT). May be repeated for credit.

LSA History of Art**Courses In History of Art (HISTART)****HISTART 194. First Year Seminar**

Enrollment restricted to first-year students, including those with sophomore standing. (3). (HU). May not be repeated for credit. May not be used to meet the prerequisite requirement for the History of Art major.

HISTART 201. Great Monuments from the Stone Age to the Middle Ages

(3). (HU). May not be repeated for credit.

HISTART 208 / AAS 208. Introduction to African Art
(4). (HU). (R&E). May not be repeated for credit.

HISTART 210. History of Photography
(4). (HU). May not be repeated for credit.

HISTART 211 / WGS 211. Gender and Popular Culture
(4). (HU). May not be repeated for credit.

HISTART 212 / ARCH 212. Understanding Architecture
(3). May not be repeated for credit. Not open to students enrolled in Architecture. W.

HISTART 214 / AAS 214. African American Art
(3). (R&E). May not be repeated for credit.

HISTART 219. Chinese Art and Visual-Material Culture
(3). (HU). May not be repeated for credit.

HISTART 221 / ARCHAM 221. Temples, Towns and Tombs: Introduction to Greek Art and Archaeology
(4; 3 in the half-term). (HU). May not be repeated for credit.

HISTART 222 / ARCHAM 222. Introduction to Roman Archaeology
(4; 3 in the half-term). (HU). May not be repeated for credit.

HISTART 228 / ARCHAM 228. Visual Cultures of Ancient Rome
(3). (HU). May not be repeated for credit.

HISTART 230 / AMCULT 230. Art and Life in 19th-Century America
(3). (HU). May not be repeated for credit.

HISTART 232 / LATINOAM 232. Visualizing Power and Resistance in Colonial Latin America
(3). (HU). May not be repeated for credit.

HISTART 243 / ASIAN 243. Introduction to South Asian Art: Art of India
(3). (HU). May not be repeated for credit.

HISTART 244 / AMCULT 244. Art of the American Century (1893-1968)
(3). (HU). May not be repeated for credit.

HISTART 250 / MEMS 250. Italian Renaissance Art
(4). (HU). May not be repeated for credit.

HISTART 253. The Mediterranean: Art History
(HU). May not be repeated for credit.

HISTART 265. Arts and Cultures of Star Wars
(4). (HU). (R&E). May not be repeated for credit.

HISTART 271 / FRENCH 241. Origins of Modernism: Art and Culture in Nineteenth Century France
(4). (HU). May not be repeated for credit. F.

HISTART 272 / RCHUMS 272. Modern Art: Avant-Garde to Contemporary
(4; 3 in the half-term). (HU). May not be repeated for credit.

HISTART 285 / ISLAM 285 / MIDEAST 285. Visual Culture Islam
(4). (HU). May not be repeated for credit.

HISTART 292 / ASIAN 292. Introduction to Japanese Art and Culture
(4). (HU). May not be repeated for credit. No credit granted to those who have completed or are enrolled in HISTART 495.

HISTART 294. Special Topics
(3). (HU). May be elected three times for credit.

HISTART 299. Experiential Study
Consent of instructor required. (1 - 3). (EXPERIENTIAL). May be repeated for a maximum of 6 credits. This course is not intended for students who are pursuing research. Offered mandatory credit/no credit.

HISTART 304 / ASIAN 304. The Art of Yoga
(3). (ID). May not be repeated for credit.

HISTART 335 / ASIAN 335. Himalayas: An Aesthetic Exploration
Undergraduate and graduate students seeking to enroll for this course should have completed at least one course on the arts/languages/religions of South/Central/East Asia. (3). (HU). May not be repeated for credit.

HISTART 345 / MEMS 345. Introduction to Medieval Architecture
(3). (HU). May not be repeated for credit.

HISTART 347. Medieval Sports and Art
(3). (HU). May not be repeated for credit.

HISTART 348 / MEMS 348. The Medieval Book
(3). (HU). May not be repeated for credit.

HISTART 351. The Art and Poetry of Michelangelo
HISTART 102 or 251. (3). May not be repeated for credit.

HISTART 355 / MEMS 355. The Miraculous and the Diabolical in Late Medieval and Early Modern Europe
(3). (HU). May not be repeated for credit.

HISTART 362 / AAS 362. Expressive Cultures of the Black Atlantic: Vision and Time
HISTART 208/AAS 208 and upperclass standing. (3). May not be repeated for credit.

HISTART 370 / FRENCH 346. Realism and Impressionism
(4). (HU). May not be repeated for credit.

HISTART 371. Weimar Culture
(3). (HU). May not be repeated for credit.

HISTART 372. Global Modern Art
(3). (HU). (R&E). May not be repeated for credit.

HISTART 376. Dada and Surrealism
(3). May not be repeated for credit.

HISTART 379 / FTVM 379 / HISTORY 379 / JUDAIC 379. Jewish Photographers Picture the Modern World

(3). (HU). May not be repeated for credit. Rackham credit requires additional work.

HISTART 382 / ANTHRARC 381 / MIDEAST 338. Introduction to Egyptian Archaeology

(4; 3 in the half-term). (HU). May not be repeated for credit.

HISTART 387 / ARCHAM 387. Archaeology of Ancient Housing

(3). May not be repeated for credit.

HISTART 389 / ARCHAM 389 / CLCIV 379. Pompeii

(3 - 4). (HU). May not be repeated for credit.

HISTART 392 / ASIAN 394. Anime to Zen: Japanese Art through Contemporary Popular Culture

(4). (HU). May not be repeated for credit.

HISTART 393. Undergraduate Seminar

(3). (HU). May be elected five times for credit. May be elected more than once in the same term. W.

HISTART 394. Special Topics in the Humanities

(3). (HU). May be repeated for a maximum of 12 credits. May be elected more than once in the same term. F, W, Sp, Su.

HISTART 395. Mini Seminar Course in History of Art

(1 - 2 in the half-term). (HU). May be elected five times for credit. May be elected more than once in the same term.

HISTART 399. Independent Study

Consent of instructor required. (1 - 3). (INDEPENDENT). May be repeated for a maximum of 6 credits.

HISTART 402. Contemporary Modes of Interpretation in Art History

Upperclass standing. (3). May not be repeated for credit. Rackham credit requires additional work.

HISTART 426 / CLARCH 427. Roman Sculpture: Image and Identity

(3). May not be repeated for credit.

HISTART 430 / ARCHAM 420. Greece before History: The Art and Archaeology of Greek Lands ca 3500 to 700 BCE

(3). May not be repeated for credit.

HISTART 431 / AMCULT 433. Made in Detroit: A History of Art and Culture in the Motor City

Upperclass standing; prior coursework in Art History, U.S. History, American Culture, or Urban studies, and permission of instructor. (3). May not be repeated for credit.

HISTART 435 / ARCHAM 435. The Art and Archaeology of Asia Minor

Upperclass standing. (3). May not be repeated for credit.

HISTART 440 / ARCHAM 440. Cities and Sanctuaries of Classical Greece

Upperclass standing, and a course in archaeology. (3; 2 in the half-term). May not be repeated for credit.

HISTART 443 / ARCHAM 443. Greek Colonization

Upperclass standing and ARCHAM/HISTART 221. (3). May not be repeated for credit.

HISTART 468. Beautiful Writing: Explorations of East Asian Calligraphy

(3). May not be repeated for credit.

HISTART 489. Special Topics in Art and Culture

(1 - 3). May be elected three times for credit. May be elected more than once in the same term.

HISTART 497. Upper-Level Seminar

Previous coursework in the History of Art. (3). May be elected three times for credit. May be elected more than once in the same term.

HISTART 498. Honors Colloquium

Consent of instructor required. HISTART 393. (3). May not be repeated for credit.

HISTART 499. Honors Thesis

HISTART 498. (Prerequisites enforced at registration.) (3). May not be repeated for credit.

HISTART 515 / ARCHAM 515. The Archaeology of the Roman Economy

ARCHAM/HISTART 222 or permission of instructor and upperclass standing. (3). May not be repeated for credit.

Courses In Museums (MUSEUMS)

MUSEUMS 301. Museums and Society

Sophomore standing or above. (Prerequisites enforced at registration.) (3). (HU). May not be repeated for credit.

MUSEUMS 394. Special Topics Lecture

(3). (HU). May be repeated for a maximum of 6 credits. May be elected more than once in the same term.

MUSEUMS 401. Contemporary Issues in Museums

MUSEUMS 301 or MSP 601. (Prerequisites enforced at registration.) (3). May not be repeated for credit. Rackham credit requires additional work.

MUSEUMS 409. Practicum in Museums

Declared academic minor in Museum Studies. (Prerequisites enforced at registration.) (3). (EXPERIENTIAL). May be repeated for a maximum of 6 credits. May be elected more than once in the same term. Offered mandatory credit/no credit.

MUSEUMS 498. Special Topics in Museum Studies

MUSEUMS 301 or MSP 601. (1 - 3). May be repeated for a maximum of 6 credits. May be elected more than once in the same term. Rackham credit requires additional work.

MUSEUMS 499. Independent Study in Museum Studies

Consent of department required. MUSEUMS 301 or MSP 601. (1 - 4). (INDEPENDENT). May be repeated for a maximum of 4 credits. May be elected more than once in the same term. Offered mandatory credit/no credit.

LSA Honors

Courses In Honors Program (HONORS)

HONORS 135. Ideas in Honors

First-year standing in the Honors Program. (1). May be elected twice for credit. May be elected more than once in the same term. Offered mandatory credit/no credit.

HONORS 202. Honors Core Quantitative (QR1)

Consent of department required. (4). (QR/1). May be elected twice for credit. May be elected more than once in the same term.

HONORS 230. Honors Core in Social Science

Consent of department required. (4). (SS). May be elected twice for credit. May be elected more than once in the same term.

HONORS 231. Honors Core in Humanities

Consent of department required. (4). (HU). May be elected twice for credit. May be elected more than once in the same term.

HONORS 240. Honors Core Writing in Social Science

Consent of department required. (4). (SS). (FYWR). May be elected twice for credit. May be elected more than once in the same term.

HONORS 241. Honors Core Writing in Humanities

Consent of department required. (4). (HU). (FYWR). May be elected twice for credit. May be elected more than once in the same term.

HONORS 242. Honors Core Writing in Natural Science

Consent of department required. (4). (NS). (FYWR). (BS). May be elected twice for credit.

HONORS 251. Honors Humanities Seminar

Open to Honors students. May be repeated for credit with permission of department. (3). (HU). May be elected twice for credit. May be elected more than once in the same term.

HONORS 290. Honors Introduction to Research

Consent of instructor required. Junior or Senior honors program. (1 - 4). (INDEPENDENT). May be repeated for a maximum of 8 credits. F, W, Sp, SS, Su.

HONORS 291. Honors Introduction to Scientific Research

Consent of instructor required. Open to Honors students. Permission of instructor. (1 - 4). (INDEPENDENT). May be repeated for a maximum of 8 credits. F, W, Sp, SS, Su.

HONORS 292. Honors Introduction to Scientific Research

Consent of instructor required. Permission of the Honors Program. (1 - 4). (INDEPENDENT). May be repeated for a maximum of 8 credits.

HONORS 370. Junior Seminar on Research Methods

Consent of instructor required. Honors student and permission of instructor. (1 - 4). May be repeated for a maximum of 8 credits.

HONORS 390. Junior Honors Research

Consent of instructor required. Permission of the Honors Director. (1 - 4). (INDEPENDENT). May be repeated for a maximum of 8 credits.

Continuing Course. Y grade can be reported at end of the first-term to indicate work in progress. At the end of the second term of HONORS 490, the final grade is posted for both term's elections. F, W, Sp/Su, Sp, Su.

HONORS 490. Senior Honors Research

Consent of instructor required. Open to upperclass Honors concentrators. Permission of instructor. (1 - 4). (INDEPENDENT). May be repeated for a maximum of 8 credits. Continuing Course. Y grade can be reported at end of the first-term to indicate work in progress. At the end of the second term, the final grade is posted for both term's elections. F, W, Sp/Su, Sp, Su.

HONORS 493. College Honors Seminar

(1 - 4). May be repeated for a maximum of 8 credits. W.

LSA Humanities Institute**Courses In Institute for the Humanities (INSTHUM)****INSTHUM 311. Topics in Interdisciplinary Studies**

(1 - 4). (HU). May be repeated for a maximum of 10 credits. May be elected more than once in the same term.

INSTHUM 400. Internship in the Humanities

Consent of department required. Concentration/minor in the humanities, humanities related focus of an interdisciplinary nature or creative arts. (1 - 2). (EXPERIENTIAL). May not be repeated for credit.

LSA II: Global Islamic Studies**Courses In Islamic Studies (ISLAM)****ISLAM 216 / MIDEAST 216 / RELIGION 204. Islam in History**

(3). (HU). May not be repeated for credit.

ISLAM 221 / AMAS 229 / AMCULT 229 / MIDEAST 221. The Qur'an as Utopian Text

(4). (HU). May not be repeated for credit.

ISLAM 238 / JUDAIC 280 / MIDEAST 238 / RELIGION 280. The Historical Jesus in Christianity, Judaism, and Islam

(4; 3 in the half-term). (HU). May not be repeated for credit.

ISLAM 241 / HISTORY 241. America and Middle Eastern Wars

(4). (SS). May not be repeated for credit.

ISLAM 246 / ANTHRCUL 246 / RELIGION 246. Anthropology of Religion

(4). (HU). May not be repeated for credit.

ISLAM 285 / HISTART 285 / MIDEAST 285. Visual Culture Islam

(4). (HU). May not be repeated for credit.

ISLAM 315 / MIDEAST 315. Introduction to Arab Culture

(4). (HU). (R&E). May not be repeated for credit.

ISLAM 319 / HISTORY 306 / MIDEAST 319. History of the Ottoman Empire: The "Classical Age", (ca. 1300-1600)

Not available to students who have completed AAPTIS 291 (#16) or HISTORY 303 (# 10) when taught with the topic "Ten Sultans, One Empire: The Ottoman Classical Age". (Prerequisites enforced at registration.) (3). (HU). May not be repeated for credit.

ISLAM 320 / HISTORY 307 / MIDEAST 320. History of the Ottoman Empire: The "Post-Classical Age", (ca. 1600-1922)

Not available to students who have completed AAPTIS 291 (#17) or HISTORY 303 (# 13) when taught with the topic "The Ottoman Empire in the Post Classical Age". (Prerequisites enforced at registration.) (3). (HU). May not be repeated for credit.

ISLAM 321 / MIDEAST 321. Jihad in History

(3). (HU). May not be repeated for credit.

ISLAM 323 / MIDEAST 323. The Prophet Muhammad in Islam

(3). (HU). May not be repeated for credit.

ISLAM 325 / ASIAN 324 / HISTORY 325 / MEMS 325 / MIDEAST 375 / RELIGION 325. The History of Islam in South Asia

(4). (HU). (R&E). May not be repeated for credit.

ISLAM 378 / AMAS 378 / AMCULT 382 / ENGLISH 378. Muslim and Arab Literatures

(3). (HU). May be repeated for a maximum of 6 credits.

ISLAM 390. Topics in Islamic Studies

(1 - 4). May be elected three times for credit. May be elected more than once in the same term.

ISLAM 392. Humanities Topics in Islamic Studies

(1 - 4). (HU). May be elected three times for credit. May be elected more than once in the same term.

ISLAM 394 / HISTORY 394 / MIDEAST 394. History of the Turkish Republic

(3). (HU). May not be repeated for credit.

ISLAM 399. Global Islamic Studies Undergraduate Internship/Experience

Consent of instructor required. (1 - 4). May be repeated for a maximum of 4 credits. Offered mandatory credit/no credit.

ISLAM 418 / MIDEAST 418 / REEES 418 / RUSSIAN 418. Islam in/and Russia: Russia's Encounters with Islam and Muslims

(3). May not be repeated for credit.

ISLAM 423 / MIDEAST 423 / RELIGION 423. Islamic Law/Shariah

NEAREAST 216. (3). May not be repeated for credit.

ISLAM 434 / MEMS 434 / MIDEAST 434. Shahnameh: Iranian Myth, Epic, and History

(3). May not be repeated for credit.

ISLAM 443 / HISTORY 443 / MIDEAST 487. Modern Middle East History

(4). May not be repeated for credit.

LSA II: International and Comparative Studies

Courses In International Studies (INTLSTD)

INTLSTD 101 / GEOG 145. Introduction to International Studies

(3). (SS). May not be repeated for credit.

INTLSTD 170. International Studies Special Topics

(1 - 3). May be elected twice for credit. Offered mandatory credit/no credit.

INTLSTD 205 / HISTORY 101. What is History?

(4; 3 in the half-term). (HU). (R&E). May not be repeated for credit.

INTLSTD 209 / HISTORY 209 / RELIGION 209 / STS 209. Death, Immortality, and Afterlife

(4; 3 in the half-term). (ID). May not be repeated for credit.

INTLSTD 210 / AAS 261 / ENVIRON 209. Nature and Power: An Introduction to Political Ecology

(4). (SS). May not be repeated for credit.

INTLSTD 247 / AAS 247 / HISTORY 247. Modern Africa

(4; 3 in the half-term). (SS). (R&E). May not be repeated for credit.

INTLSTD 270. International Studies Special Topics

Students with a declared major/minor in International Studies. (Prerequisites enforced at registration.) (1 - 4). May be elected twice for credit.

INTLSTD 301. Topics in International Studies

INTLSTD 101. (3 - 4). May be elected twice for credit. May be elected more than once in the same term.

INTLSTD 304 / HISTORY 304 / LACS 304 / WGS 306. Maternal and Infant Health in Latin American History

(3). (ID). May not be repeated for credit.

INTLSTD 308 / MENAS 308 / MIDEAST 308. Conflict and Comics: Reframing the Middle East

(3). (HU). May not be repeated for credit.

INTLSTD 348 / HISTORY 348. Latin America: The National Period

(1 - 5; 3 in the half-term). (SS). (R&E). May not be repeated for credit.

INTLSTD 350 / ANTHRCUL 350. Corporations and Democracy

(4). (SS). May not be repeated for credit.

INTLSTD 351 / ASIAN 351 / ENVIRON 351. Chinese Food in Crisis: Health, Ecology, and Identity in an Age of Globalization

ASIAN 258, ASIAN 366, or coursework in Chinese Studies or Sustainability. (3). (ID). May not be repeated for credit.

INTLSTD 360 / AAS 363 / POLSCI 360. Politics of International Aid

(4). (SS). May not be repeated for credit.

INTLSTD 370. International Studies: Special Topics

Consent of department required. (1 - 4). May be elected twice for credit. May be elected more than once in the same term.

INTLSTD 373 / POLSCI 373. Data Science for International Studies

STATS 250 or STATS 206. (3). May not be repeated for credit.

INTLSTD 381 / ANTHRCUL 348 / MIDEAST 381. Anthropology of Islam

(3). (SS). May not be repeated for credit.

INTLSTD 384. International and/or Comparative Topics in the Humanities

INTLSTD 101. (1 - 4). (HU). May be repeated for a maximum of 10 credits. May be elected more than once in the same term.

INTLSTD 385. International and/or Comparative Topics in the Social Sciences

INTLSTD 101. (1 - 4). (SS). May be repeated for a maximum of 10 credits. May be elected more than once in the same term.

INTLSTD 386. Topics in International Security, Norms and Cooperation

INTLSTD 101. (Prerequisites enforced at registration.) INTLSTD 301. (3 - 4). May be elected twice for credit. May be elected more than once in the same term.

INTLSTD 391. Directed Studies

Consent of department required. (1 - 4). (INDEPENDENT). May be elected three times for credit.

INTLSTD 399. International Studies Undergraduate Internship

Consent of department required. INTLSTD 170. (1 - 4). (EXPERIENTIAL). (INDEPENDENT). May be elected twice for credit. Offered mandatory credit/no credit.

INTLSTD 401. International Studies Advanced Seminar

Junior standing or above. (Prerequisites enforced at registration.) (3 - 4). May be elected four times for credit. May be elected more than once in the same term.

INTLSTD 441 / AAS 441 / POLSCI 441. Political Violence in Africa

(3). May not be repeated for credit.

INTLSTD 450 / MIDEAST 450 / WGS 450. Transnational Feminisms

At least one prior course in Women's and Gender Studies, Middle East Studies, or International Studies. (3). May not be repeated for credit. Rackham credit requires additional work.

INTLSTD 470. International Studies: Special Topics

Consent of department required. (1 - 4). May be elected twice for credit. May be elected more than once in the same term.

INTLSTD 471. Donia Human Rights Fellows Program Practicum

INTLSTD 101. (Prerequisites enforced at registration.) (3 - 4; 1 - 2 in the half-term). May not be repeated for credit. Offered mandatory credit/no credit.

INTLSTD 491. Directed Studies

INTLSTD 101 and Permission of Instructor and the Director. (Prerequisites enforced at registration.) INTLSTD 301. (2 - 4). (INDEPENDENT). May be elected twice for credit.

INTLSTD 498. Senior Honors Proseminar

International Studies Senior Honors Majors only. (Prerequisites enforced at registration.) (3). May not be repeated for credit.

INTLSTD 499. Senior Honors Proseminar

International Studies Senior Honors majors who have completed INTLSTD 498. (Prerequisites enforced at registration.) (3). May not be repeated for credit.

LSA II: Japanese Studies

Courses In Japanese Studies (CJS)

CJS 450. Minicourse in Japanese Studies

Upperclass standing. (1 - 2). May be repeated for a maximum of 4 credits. May be elected more than once in the same term. Taught in English. Rackham credit requires additional work.

CJS 451. Topics in Japanese Studies

Junior/Senior or Graduate students. (3). May be repeated for a maximum of 18 credits. May be elected more than once in the same term. Rackham credit requires additional work.

LSA II: KLRR Center for Chinese Studies

Courses In Chinese Studies (CCS)

CCS 526 / SOC 426. Gender and Family in East Asia

One introductory course in any social science discipline. (3). May not be repeated for credit. Rackham credit requires additional work.

LSA II: Latin American and Caribbean Studies

Courses In Latin American and Caribbean Studies (LACS)

LACS 304 / HISTORY 304 / INTLSTD 304 / WGS 306. Maternal and Infant Health in Latin American History

(3). (ID). May not be repeated for credit.

LACS 321. Social Science Topics in LACS

(3 - 4). (SS). May be elected five times for credit. May be elected more than once in the same term.

LACS 355. Topics in Latin American and Caribbean Studies

(3). May be elected twice for credit. May be elected more than once in the same term.

LACS 399. Thesis-Writers' Seminar

Consent of instructor required. (3). May not be repeated for credit. Continuing Course. Y grade can be reported at end of the first-term to indicate work in progress. At the end of the second term, the final grade is posted for both term's elections.

LACS 421 / AAS 421 / HISTORY 421 / RELIGION 421. Religions of the African Diaspora

(3). (R&E). May not be repeated for credit. Rackham credit requires additional work.

LACS 425. Field Study

Consent of instructor required. (1 - 4). (EXPERIENTIAL). (INDEPENDENT). May be repeated for a maximum of 8 credits. Offered mandatory credit/no credit.

LACS 446 / LING 446. Comparative Linguistics

At least one course in Linguistics/language analysis. (3). May not be repeated for credit. Rackham credit requires additional work.

LACS 455. Topics in Latin American Studies

Consent of instructor required. (3). May be repeated for a maximum of 6 credits.

LACS 461. Elementary Nahuatl I

(4). May not be repeated for credit.

LACS 462. Elementary Nahuatl II

LACS 461. (Prerequisites enforced at registration.) (4). May not be repeated for credit.

LACS 463. Intermediate Nahuatl I

LACS 462. (Prerequisites enforced at registration.) (4). May not be repeated for credit.

LACS 464. Intermediate Nahuatl II

LACS 463. (Prerequisites enforced at registration.) (4). (Lang Req). May not be repeated for credit.

LACS 465. Advanced Nahuatl I

LACS 464. (Prerequisites enforced at registration.) (4). May not be repeated for credit.

LACS 466. Advanced Nahuatl II

LACS 465. (Prerequisites enforced at registration.) (4). May not be repeated for credit.

LACS 471. Elementary Quechua, I

Permission of instructor. (4). May not be repeated for credit.

LACS 472. Elementary Quechua, II

LACS 471. (Prerequisites enforced at registration.) (4). May not be repeated for credit.

LACS 473. Intermediate Quechua, I

LACS 472. (Prerequisites enforced at registration.) Permission of instructor. (4). May not be repeated for credit.

LACS 474. Intermediate Quechua, II

LACS 473. (Prerequisites enforced at registration.) (4). (Lang Req). May not be repeated for credit.

LACS 475. Advanced Quechua, I

LACS 474. (Prerequisites enforced at registration.) Permission of instructor. (4). May not be repeated for credit.

LACS 476. Advanced Quechua, II

LACS 475. (Prerequisites enforced at registration.) (4). May not be repeated for credit.

LACS 483 / AAS 473 / HISTORY 473. Brazil: History and Culture

(3). May not be repeated for credit. Rackham credit requires additional work.

LACS 490. Topics in Latin American and Caribbean Studies Mini-course

(1 - 2). May be repeated for a maximum of 4 credits. May be elected more than once in the same term.

LACS 499. Reading and Research in Latin American and Caribbean Studies

Consent of instructor required. (1 - 3). (INDEPENDENT). May be repeated for a maximum of 6 credits.

LSA II: Middle Eastern and North African Studies

Courses In Middle Eastern and North African Studies (MENAS)

MENAS 244 / HISTORY 244 / JUDAIC 244 / MIDEAST 284. The History of the Arab-Israeli Conflict

(4; 3 in the half-term). (SS). (R&E). May not be repeated for credit.

MENAS 308 / INTLSTD 308 / MIDEAST 308. Conflict and Comics: Reframing the Middle East

(3). (HU). May not be repeated for credit.

MENAS 340 / ASIAN 340 / HISTORY 340 / MIDEAST 340 / REEES 340. From Genghis Khan to the Taliban: Modern Central Asia

(4; 3 - 4 in the half-term). (SS). (R&E). May not be repeated for credit.

MENAS 341 / FRENCH 347 / JUDAIC 340 / MIDEAST 313. Colonialism in North Africa: 1800-Present

(3). (HU). May not be repeated for credit.

MENAS 353 / JUDAIC 353 / POLSCI 353. The Arab-Israeli Conflict

(4). May not be repeated for credit.

MENAS 461 / EDUC 461. Web Based Mentorship: Earth Odysseys

(3). May be repeated for a maximum of 6 credits.

MENAS 462 / EDUC 462. Web Based Mentorship: Learning Through Character Play

Consent of instructor required. (3). (EXPERIENTIAL). May be repeated for credit. May be elected more than once in the same term.

MENAS 463 / EDUC 463. Web Based Mentorship: Arab-Israeli Conflict Simulation

(3). May be repeated for a maximum of 6 credits.

MENAS 492. Advanced Topics in MENAS

(1 - 4). May be elected three times for credit. May be elected more than once in the same term.

MENAS 493 / MIDEAST 483. Comparative Perspectives of the Middle East and North Africa

(1). May be repeated for a maximum of 12 credits. May be elected more than once in the same term. Rackham credit requires additional work.

MENAS 495. Senior Honors Thesis

Consent of instructor required. Open only to Honors concentrators with senior standing. (3 - 4). (INDEPENDENT). May not be repeated for credit. Continuing Course. Y grade can be reported at end of the first-term to indicate work in progress. At the end of the second term of MENAS 496, the final grade is posted for both term's elections.

MENAS 496. Senior Honors Thesis

Consent of instructor required. MENAS 495; Open only to Honors concentrators with senior standing. (3 - 4). (INDEPENDENT). May not be repeated for credit.

MENAS 591. Interdisciplinary Middle East Topics Seminar

Upperclass standing; concentration in MENAS, NES or other fields with main interest in Middle Eastern Studies. (3). May be repeated for a maximum of 9 credits. May be elected more than once in the same term.

LSA II: Nam Center for Korean Studies

Courses In Korean Studies (KRSTD)

KRSTD 290. Topics in Korean Studies

(1 - 4). May be elected three times for credit. May be elected more than once in the same term.

KRSTD 390. Special Topics in Korean Studies

(1 - 4). May be elected three times for credit. May be elected more than once in the same term.

KRSTD 392. Humanities Topics in Korean Studies

(1 - 4). (HU). May be elected three times for credit. May be elected more than once in the same term.

KRSTD 471. Nam Center Undergraduate Fellows Research Seminar, I

Consent of department required. (2). May be elected twice for credit.

KRSTD 472. Nam Center Undergraduate Fellows Research Seminar, II

Consent of department required. KRSTD 471. (1 - 2). May be elected twice for credit.

KRSTD 490. Advanced Topics in Korean Studies

(1 - 4). May be elected three times for credit. May be elected more than once in the same term.

LSA II: Russian, East European, and Eurasian Studies

Courses In Russian, East European, and Eurasian Studies (REEES)

REEES 214 / POLISH 214. Rock Poetry and Political Protest in Poland

(3). (HU). May not be repeated for credit.

REEES 301. Directed Reading

Consent of instructor required. (1 - 3). (INDEPENDENT). May be repeated for a maximum of 6 credits.

REEES 340 / ASIAN 340 / HISTORY 340 / MENAS 340 / MIDEAST 340. From Genghis Khan to the Taliban: Modern Central Asia

(4; 3 - 4 in the half-term). (SS). (R&E). May not be repeated for credit.

REEES 395 / HISTORY 332 / POLSCI 395 / SLAVIC 395 / SOC 392. Russia and the Soviet Union: Reform, Revolution, and the Socialist Experiment

(4; 3 in the half-term). (SS). May not be repeated for credit.

REEES 397 / ANTHRCUL 317 / HISTORY 228 / POLSCI 334 / SLAVIC 397 / SOC 317. Communism and Capitalism in Eastern Europe

(4). (SS). May not be repeated for credit. No credit granted to those who have completed or are enrolled in REEES 396 or SLAVIC 396 or POLSCI 396 or HISTORY 333 or SOC 393.

REEES 402. Honors Workshop, Junior

Consent of instructor required. Honors student and junior standing. (2). May not be repeated for credit.

REEES 403. Honors Colloquium, Senior

Consent of instructor required. REEES 402 or a thesis prospectus accepted (prior to start of fall term of senior year) by REEES Honors advisor and an individual thesis advisor. (1 - 6). May be repeated for a maximum of 6 credits.

REEES 405. Topics in Russian, East European, and Eurasian Studies

(1 - 4). May be repeated for a maximum of 8 credits. May be elected more than once in the same term.

REEES 418 / ISLAM 418 / MIDEAST 418 / RUSSIAN 418. Islam in/and Russia: Russia's Encounters with Islam and Muslims

(3). May not be repeated for credit.

LSA II: S. Asian Studies

LSA II: Science, Tech & Soc.

Courses In Science, Technology & Society (STS)

STS 105 / CHEM 105 / CLIMATE 105 / ENSCEN 105 / ENVIRON 105. Our Changing Atmosphere

(NS). (BS). May not be repeated for credit.

STS 110 / ALA 119 / SI 110. Introduction to Information Studies

(SS). May not be repeated for credit.

STS 202 / HISTORY 242 / MIDEAST 201. Madness, Medicine, and Magic in the Middle East

(4). (HU). May not be repeated for credit.

STS 207 / ENVIRON 207. Sustainability and Society

(3). (SS). May not be repeated for credit.

STS 209 / HISTORY 209 / INTLSTD 209 / RELIGION 209. Death, Immortality, and Afterlife

(4; 3 in the half-term). (ID). May not be repeated for credit.

STS 220 / NURS 220 / WGS 220. Perspectives in Women's Health

(3). (SS). (R&E). May not be repeated for credit.

STS 234 / HISTORY 234. History of Medicine in the Western World from the 18th Century to the Present

(4; 3 in the half-term). (ID). May not be repeated for credit.

STS 237 / ENVIRON 237 / HISTORY 237. Global Environmental History

(4; 3 in the half-term). (ID). May not be repeated for credit.

STS 240 / PUBPOL 240. Introduction to Technology Policy

May not be repeated for credit.

STS 265 / HISTORY 265 / PSYCH 265. Minds and Brains in America

(4; 3 in the half-term). (HU). May not be repeated for credit.

STS 285 / HISTORY 285 / RCSSCI 275. Science, Technology, Medicine, and Society

(4). (SS). May not be repeated for credit.

STS 296 / HISTORY 296 / WGS 296. My Body, My Choice: A History of Reproductive Medicine in the U.S.

(4; 3 in the half-term). May not be repeated for credit.

STS 299. Topics in Science, Technology and Society

(3 - 4). May be elected four times for credit. May be elected more than once in the same term. Only 9 credits total can be elected between STS 299, 399, and 499.

STS 302 / AMCULT 302 / RCSTP 302. Contemporary Social and Cultural Theory

(4). (SS). May not be repeated for credit.

STS 305 / HISTORY 305 / PSYCH 321. American Addictions

(4; 3 in the half-term). (ID). May not be repeated for credit.

STS 308 / ENVIRON 308. Sustainability and Health

(3). (SS). May not be repeated for credit.

STS 320 / PHIL 320. The World-View of Modern Science

(4; 3 in the half-term). (HU). May not be repeated for credit.

STS 327 / ANTHRCUL 327 / RCSTP 327 / WGS 307. Critical Theory in Medicine and Healing

One course in ANTHRCUL or RCSSCI or RCSTP or WGS/AMCULT 240 (WOMENSTD/AMCULT 240) or WGS (WOMENSTD) with an SS designation. (4). (SS). May not be repeated for credit.

STS 330 / ENGLISH 343 / ENVIRON 320. Environmental Journalism: Reporting About Science, Policy, and Public Health

Completion of First-Year Writing Requirement. (3). (ID). May not be repeated for credit.

STS 341 / ANTHRCUL 341. The Globalization of Biomedicine

(4). (SS). May not be repeated for credit.

STS 342 / MIDEAST 341 / RCIDIV 341. Science and Technology in the Ancient Middle East

MIDEAST 200: Introduction to the Middle East. (3). (ID). May not be repeated for credit.

STS 344 / ANTHRCUL 344. Medical Anthropology

ANTHRCUL 101 or 222; or sophomore and above. (Prerequisites enforced at registration.) (4). (SS). May not be repeated for credit.

STS 376 / HISTORY 376. Epidemics: Plagues and Cultures from the Black Death to the Present

(4; 3 in the half-term). (SS). May not be repeated for credit.

STS 381 / PHIL 381. Science and Objectivity

One Philosophy course completed with a minimum grade of C- or better. (Prerequisites enforced at registration.) (4; 3 in the half-term). (HU). May not be repeated for credit.

STS 392 / CLCIV 392 / HISTORY 292. Ancient Medicine in Greece & Rome

(4). (HU). May not be repeated for credit.

STS 399. Topics in Science, Technology, Medicine and Society

(3 - 4). May be elected four times for credit. May be elected more than once in the same term. Only 9 credits total can be elected between STS 299, 399, and 499.

STS 410 / AMCULT 410 / DIGITAL 410 / SI 410. Ethics and Information Technology

Junior or Senior. (Prerequisites enforced at registration.) May not be repeated for credit.

LSA II: SE Asian Studies

Courses In Southeast Asian Studies (SEAS)

SEAS 215. Contemporary Social Issues in Southeast Asia

(3). (SS). May not be repeated for credit. W.

SEAS 455. Topics in Southeast Asian Studies

Junior, Senior, graduate students. (3). May be repeated for a maximum of 12 credits. May be elected more than once in the same term. Rackham credit requires additional work.

LSA Judaic Studies

Courses In Judaic Studies (JUDAIC)

JUDAIC 101 / GERMAN 127 / YIDDISH 101. First Year Yiddish I

(4). May not be repeated for credit. No credit granted to those who have completed or are enrolled in JUDAIC 431 or YIDDISH 431. Graduate students elect JUDAIC 431 or YIDDISH 431. F.

JUDAIC 102 / GERMAN 128 / YIDDISH 102. First Year Yiddish II

JUDAIC/YIDDISH 101. (4). May not be repeated for credit. No credit granted to those who have completed or are enrolled in JUDAIC 432 or YIDDISH 432. Graduate students elect JUDAIC 432 or YIDDISH 432. W.

JUDAIC 120 / MELANG 101 / RELIGION 110. Elementary Classical Hebrew I

(3). May not be repeated for credit.

JUDAIC 150. First Year Seminar in Judaic Studies

Enrollment restricted to first-year students, including those with sophomore standing. (3). (HU). May be repeated for a maximum of 6 credits. May be elected more than once in the same term.

JUDAIC 201 / GERMAN 227 / YIDDISH 201. Second Year Yiddish I

JUDAIC/YIDDISH 102. (4). May not be repeated for credit. No credit granted to those who have completed or are enrolled in JUDAIC 531 or YIDDISH 531. Graduate students elect JUDAIC 531 or YIDDISH 531. F.

JUDAIC 202 / GERMAN 228 / YIDDISH 202. Second Year Yiddish II

JUDAIC/YIDDISH 201. (4). (Lang Req). May not be repeated for credit. No credit granted to those who have completed or are enrolled in JUDAIC 532 or YIDDISH 532. Graduate students elect JUDAIC 532 or YIDDISH 532. W.

JUDAIC 205 / MIDEAST 276. What is Judaism?

(3). (HU). May not be repeated for credit. No credit granted to those who have completed or are enrolled in JUDAIC 505 or HJCS 576.

JUDAIC 210 / HISTORY 258. Sources of Jewish History

(3). (HU). May not be repeated for credit.

JUDAIC 216. Social Sciences Topics in Judaism

(1 - 4). (SS). May be repeated for a maximum of 9 credits. May be elected more than once in the same term.

JUDAIC 217. Topics in the Hebrew Bible

(3). (HU). May be elected twice for credit.

JUDAIC 218. Humanities Topics in Judaism

(1 - 4). (HU). May be elected eight times for credit. May be elected more than once in the same term.

JUDAIC 223. The Problem with the Bible

(3). (HU). May not be repeated for credit.

JUDAIC 224 / HISTORY 222 / WGS 224. Sex and Sexuality in Jewish History and Culture

(3). (HU). May not be repeated for credit.

JUDAIC 244 / HISTORY 244 / MENAS 244 / MIDEAST 284. The History of the Arab-Israeli Conflict

(4; 3 in the half-term). (SS). (R&E). May not be repeated for credit.

JUDAIC 250 / FTVM 250 / MIDEAST 280. Screening Jewish Cultures

(3). (HU). (R&E). May not be repeated for credit.

JUDAIC 253. The Mediterranean: Jewish Studies

(3). (HU). May not be repeated for credit. No credit granted to those who have completed or are enrolled in either HISTART 253 or ROMLANG 253.

JUDAIC 255 / MIDEAST 279. Tel Aviv and Jerusalem in Israeli Culture

(3). (HU). May not be repeated for credit.

JUDAIC 258 / ENGLISH 258 / RELIGION 258. The Bible as Literature

(3). (HU). May not be repeated for credit.

JUDAIC 261 / HISTORY 276 / MIDEAST 277. Lost Books That Rewrote the Bible

(3). (HU). May not be repeated for credit.

JUDAIC 262 / MIDEAST 262 / RELIGION 261. The Bible and the Quran

No credit in JUDAIC 217 with the topic *The Bible and the Quran*. (Prerequisites enforced at registration.) (3). (HU). May not be repeated for credit.

JUDAIC 271 / SLAVIC 270. Contact and Conflict: Jewish Experience in Eastern Europe through Art, Film and Literature

(3). (HU). (R&E). May not be repeated for credit.

JUDAIC 280 / ISLAM 238 / MIDEAST 238 / RELIGION 280. The Historical Jesus in Christianity, Judaism, and Islam

(4; 3 in the half-term). (HU). May not be repeated for credit.

JUDAIC 281 / MIDEAST 281 / SLAVIC 281. Jews in the Modern World: Texts, Images, Ideas

(4). (HU). (R&E). May not be repeated for credit.

JUDAIC 310. Experiential Learning in Judaic Studies

Consent of department required. (3). (EXPERIENTIAL). May not be repeated for credit.

JUDAIC 316. Themes in Jewish Literature

(1 - 4). May be repeated for a maximum of 8 credits. May be elected more than once in the same term.

JUDAIC 317. Topics in Judaic Studies

(1 - 4). May be repeated for a maximum of 8 credits. May be elected more than once in the same term.

JUDAIC 318. Humanities Topics in Judaism

(1 - 4). (HU). May be repeated for a maximum of 8 credits. May be elected more than once in the same term.

JUDAIC 322 / GERMAN 322 / HISTORY 322. The Origins of Nazism

(4). (HU). (R&E). May not be repeated for credit.

JUDAIC 324 / HISTORY 323 / MEMS 323. Conversion and Inquisition in Early Modern Spain

(3). (HU). May not be repeated for credit.

JUDAIC 334 / ENGLISH 337 / MIDEAST 334 / RELIGION 334. The Bible as a Material Object

No credit in JUDAIC 318 with the topic *The Bible as a Material Object*. (Prerequisites enforced at registration.) (3). (HU). May not be repeated for credit.

JUDAIC 335 / MIDEAST 335 / RELIGION 359. History and Religion of Second Temple Judaism

(3). (HU). May be elected three times for credit.

JUDAIC 340 / FRENCH 347 / MENAS 341 / MIDEAST 313. Colonialism in North Africa: 1800-Present

(3). (HU). May not be repeated for credit.

JUDAIC 341. Jews and Arabs in the Holy Land

No credit in JUDAIC 318 with the topic *Jews and Arabs in the Holy Land*. (Prerequisites enforced at registration.) (3). (HU). May not be repeated for credit.

JUDAIC 342 / RELIGION 342. Jerusalem: One City Three Faiths

No credit in JUDAIC 318 or JUDAIC 253 with the topic *Jerusalem: One City Three Faiths*. (Prerequisites enforced at registration.) (3). (HU). May not be repeated for credit.

JUDAIC 351 / DUTCH 351. Anne Frank in Context

(3). (HU). (R&E). May not be repeated for credit.
JUDAIC 353 / MENAS 353 / POLSCI 353. The Arab-Israeli Conflict
 (4). May not be repeated for credit.
JUDAIC 360 / MIDEAST 386. A Global History of the Jews of Spain
 JUDAIC 205. (3). (HU). May not be repeated for credit.
JUDAIC 373 / MIDEAST 356. Israeli Culture and Society
 (3). (SS). May not be repeated for credit.
JUDAIC 374 / MIDEAST 373 / RELIGION 373. Religions of the Jews
 (3). (HU). May not be repeated for credit.
JUDAIC 375 / MIDEAST 343. Archaeology and the Bible
 (4). (ID). May not be repeated for credit.
JUDAIC 376 / WGS 376. Women and the Bible
 (3). (HU). May not be repeated for credit.
JUDAIC 377. Biblical Masculinities
 (3). (HU). May not be repeated for credit.
JUDAIC 378 / MIDEAST 382. Modern Questions, Biblical Answers
 (3). (HU). May not be repeated for credit.
JUDAIC 379 / FTVM 379 / HISTART 379 / HISTORY 379. Jewish Photographers Picture the Modern World
 (3). (HU). May not be repeated for credit. Rackham credit requires additional work.
JUDAIC 386 / GERMAN 391 / HISTORY 386. The Holocaust
 (4). (SS). (R&E). May not be repeated for credit.
JUDAIC 387 / AMCULT 387 / HISTORY 387. History of American Jews
 (4; 3 in the half-term). (HU). May not be repeated for credit.
JUDAIC 388 / HISTORY 384. Antisemitism and Philosemitism: Jews in Myth and Thought
 (3). (HU). (R&E). May not be repeated for credit.
JUDAIC 389 / ENGLISH 383. Jewish Literature
 (3). (HU). May not be repeated for credit.
JUDAIC 417. Topics in Judaic Studies
 (1 - 4). May be elected three times for credit. May be elected more than once in the same term. Rackham credit requires additional work.
JUDAIC 425. Reading Modern Jewish Literatures
 Lower level course in Jewish literature and culture. (3). May not be repeated for credit.
JUDAIC 440 / AMCULT 438 / HISTORY 444. A History of Jews and Social Justice in the United States
 No credit granted to those who have completed or are enrolled in JUDAIC 417: Topics in Judaic Studies, topic #11 "A History of Jews and Social Justice in the US". (Prerequisites enforced at registration.) (3). May not be repeated for credit. Rackham credit requires additional work.
JUDAIC 441. The History of Jews at the University of Michigan: Exclusion and Inclusion in American Higher Education
 (3). May not be repeated for credit. Rackham credit requires additional work.
JUDAIC 468 / MIDEAST 456 / RELIGION 469. Jewish Mysticism
 (3). May not be repeated for credit. Taught in English.
JUDAIC 495. Independent Studies
 Consent of instructor required. (1 - 3). (INDEPENDENT). May not be repeated for credit. F.
JUDAIC 496. Independent Studies
 Consent of instructor required. (1 - 3). (INDEPENDENT). May not be repeated for credit.
JUDAIC 497. Senior Thesis
 Consent of instructor required. (3). (INDEPENDENT). May not be repeated for credit. Continuing Course. Y grade can be reported at end of the first-term to indicate work in progress. At the end of the second term of JUDAIC 498, the final grade is posted for both term's elections. F.
JUDAIC 498. Senior Thesis
 Consent of instructor required. (3). (INDEPENDENT). May not be repeated for credit.

Courses In Ladino (LADINO)

LADINO 280. Ladino: Language and Culture of the Sephardi Jews
 (3). (HU). May not be repeated for credit. No credit granted to those who have completed or are enrolled in LADINO 580.
LADINO 282. Ladino II: Language and Culture of the Sephardi Jews
 LADINO 280 or 580, or at least two semesters of a Romance language at the university level. (4). (HU). May not be repeated for credit.

Courses In Yiddish (YIDDISH)

YIDDISH 101 / GERMAN 127 / JUDAIC 101. First Year Yiddish I
 (4). May not be repeated for credit. No credit granted to those who have completed or are enrolled in JUDAIC 431 or YIDDISH 431. Graduate students elect JUDAIC 431 or YIDDISH 431. F.
YIDDISH 102 / GERMAN 128 / JUDAIC 102. First Year Yiddish II
 JUDAIC/YIDDISH 101. (4). May not be repeated for credit. No credit granted to those who have completed or are enrolled in JUDAIC 432 or YIDDISH 432. Graduate students elect JUDAIC 432 or YIDDISH 432. W.
YIDDISH 201 / GERMAN 227 / JUDAIC 201. Second Year Yiddish I
 JUDAIC/YIDDISH 102. (4). May not be repeated for credit. No credit granted to those who have completed or are enrolled in JUDAIC 531 or YIDDISH 531. Graduate students elect JUDAIC 531 or YIDDISH 531. F.
YIDDISH 202 / GERMAN 228 / JUDAIC 202. Second Year Yiddish II
 JUDAIC/YIDDISH 201. (4). (Lang Req). May not be repeated for credit. No credit granted to those who have completed or are enrolled in JUDAIC 532 or YIDDISH 532. Graduate students elect JUDAIC 532 or YIDDISH 532. W.

LSA Linguistics

Courses In Cognitive Science (COGSCI)

COGSCI 200. Introduction to Cognitive Science

(4). (ID). (BS). May not be repeated for credit.

COGSCI 209 / LING 209 / PSYCH 242. Language and Human Mind

Not available to students who have completed LING 103 (courseID 020035), Topic: Language and Mind,(Topic #6). (Prerequisites enforced at registration.) (4; 3 in the half-term). (ID). May not be repeated for credit.

COGSCI 302 / PHIL 302. Topics in Moral Psychology

COGSCI 200 or permission of instructor. (Prerequisites enforced at registration.) (3). May not be repeated for credit.

COGSCI 303. Cognitive Science and Psychopathology

COGSCI 200 and no credit in COGSCI 301, with the topic "Cognitive Science and Psychopathology. (Prerequisites enforced at registration.) (3). May not be repeated for credit.

COGSCI 401. Special Topics for Cognitive Science

Consent of department required. (3). May be elected twice for credit. May be elected more than once in the same term.

COGSCI 432 / LING 432 / NEURO 432 / PSYCH 444. Introduction to Neurolinguistics

LING 209, LING 210, COGSCI 200, or PSYCH 240. (3). (BS). May not be repeated for credit.

COGSCI 445 / LING 445. Introduction to Machine Learning for Natural Language Processing

EECS 281 and (CogSci 200 or Ling 209 or 313 or 315 or 316). (Prerequisites enforced at registration.) (3). (BS). May not be repeated for credit.

COGSCI 497. Directed Research in Cognitive Science

Consent of department required. (1 - 6). (INDEPENDENT). May be repeated for a maximum of 6 credits.

COGSCI 498. Independent Study for Cognitive Science

Consent of department required. (1 - 6). (INDEPENDENT). May be repeated for a maximum of 6 credits.

COGSCI 499. Senior Honors Research for Cognitive Science

Consent of department required. Acceptance into the Cognitive Science Honors Program. (1 - 6). (INDEPENDENT). May be elected twice for credit.

Courses In Linguistics (LING)

LING 102. First Year Seminar (Humanities)

Enrollment restricted to first-year students, including those with sophomore standing. (3). (HU). May not be repeated for credit.

LING 103. First Year Seminar (Social Science)

Enrollment restricted to first-year students, including those with sophomore standing. (3). (SS). May not be repeated for credit.

LING 106. Start Talking: Introduction to First Language Acquisition

(3). (SS). May not be repeated for credit.

LING 111. Lenses into Language: Mind, Society, Justice

(3). (SS). May not be repeated for credit.

LING 112. Languages of the World

(3). (SS). May not be repeated for credit.

LING 114. A World of Words

(3). (HU). May not be repeated for credit.

LING 115. Language in a Multicultural World

(3). (SS). May not be repeated for credit.

LING 123 / COMPFOR 150. The ABC's of Python: Language, Mind, and the Nature of Programming

(3). (MSA). (BS). (QR/1). May not be repeated for credit.

LING 125. Human Language and Computers

(3). (ID). (BS). May not be repeated for credit.

LING 130. Language and Animal Communication

(3). (ID). May not be repeated for credit.

LING 137. Epic Grammar Fails: The Linguistics of Language Peeves

No credit granted to those who have completed or are enrolled in LING 102: First Year Seminar (Humanities) with topic number #16: Epic Grammar Fails. (Prerequisites enforced at registration.) (3). (HU). May not be repeated for credit.

LING 192. Humanities Topics in Linguistics

(1 - 4). (HU). May be elected twice for credit. May be elected more than once in the same term.

LING 193. Social Sciences Topics in Linguistics

(1 - 4). (SS). May be elected twice for credit. May be elected more than once in the same term.

LING 209 / COGSCI 209 / PSYCH 242. Language and Human Mind

Not available to students who have completed LING 103 (courseID 020035), Topic: Language and Mind,(Topic #6). (Prerequisites enforced at registration.) (4; 3 in the half-term). (ID). May not be repeated for credit. Does not count toward the requirements for the Psychology major.

LING 210. Introduction to Linguistic Analysis

(3). (SS). May not be repeated for credit.

LING 272 / ANTHRCUL 272. Language in Society

Primarily for first- and second-year students. (4). (SS). (R&E). May not be repeated for credit.

LING 303. Social Science Topics in Linguistics

(3). (SS). May be elected twice for credit. May be elected more than once in the same term.

LING 313. Sound Patterns

LING 111, 209, 210, or 212. (3; 2 in the half-term). (SS). May not be repeated for credit.

LING 315. Introduction to Syntax

LING 111, 209, or 210. (3). May not be repeated for credit.

LING 316. Aspects of Meaning
LING 111, 209, or 210. (3). (MSA). (QR/1). May not be repeated for credit.

LING 317. Language and History
LING 111 or 210. (3; 2 in the half-term). (HU). May not be repeated for credit.

LING 321 / COMPFOR 250. Alien Anatomy: How ChatGPT Works
No credit in LING 394 or COMPFOR 302 with topic Alien Anatomy: How ChatGPT works. (Prerequisites enforced at registration.) (3). (SS).
May not be repeated for credit.

LING 335. Speech and Language Disorders
An introduction to linguistics, including LING 111, 209, or 210. (3). (BS). May not be repeated for credit.

LING 336. Reading: Language, the Brain, and Cognition
(3). (BS). May not be repeated for credit.

LING 340. The Social Life of Language
LING 111 or 210. (3). (SS). May not be repeated for credit.

LING 341. The Mathematics of Language
One linguistics course. (3). May not be repeated for credit.

LING 342. Perspectives on Bilingualism
LING 111, 210, or 272. (3). (HU). May not be repeated for credit.

LING 343. Understanding Data Through Computing
(3). (MSA). (BS). (QR/1). May not be repeated for credit.

LING 345. The Linguistics of Speech Recognition
(3). (BS). May not be repeated for credit.

LING 347 / PSYCH 349. Talking Minds
At least one of: LING 111 or 210, or PSYCH 111, 112, 114, or 115. (3). (BS). May not be repeated for credit.

LING 352 / PSYCH 352. Development of Language and Thought
PSYCH 250. (3). (NS). (BS). May not be repeated for credit.

LING 370 / ANTHRCUL 370. Language and Discrimination: Language as Social Statement
(3). (SS). (R&E). May not be repeated for credit.

LING 374 / ANTHRCUL 374. Language and Culture
Sophomore standing. (4). (HU). May not be repeated for credit.

LING 375. Language in the Mass Media: Linguistics and Language Variation in the Public Sphere
LING 111 or 210. (3). (ID). May not be repeated for credit.

LING 390 / EDUC 390 / ELI 390 / RCSTP 390. Community-Engaged Learning in ESL Teaching Contexts
(3). (EXPERIENTIAL). May be elected three times for credit.

LING 394. Topics in Linguistics
LING 111 or 210. (1 - 4). May be elected twice for credit. May be elected more than once in the same term.

LING 395. Individual Research
Consent of instructor required. (1 - 4). (INDEPENDENT). May be repeated for a maximum of 6 credits. F, W, Sp, Su.

LING 398 / ROMLING 298 / SPANISH 298. Introduction to Spanish Linguistics
SPANISH 277; or SPANISH 278 or AMCULT 224 or LATINOAM 224; or RCLANG 324; or study abroad equivalent (SP27 student group).
(Prerequisites enforced at registration.) (3). May not be repeated for credit.

LING 408 / ENGLISH 408. Varieties of English
(3). May not be repeated for credit.

LING 413. Speech Science
LING 313. (Prerequisites enforced at registration.) (3). May not be repeated for credit.

LING 421. Morphology
LING 313. (Prerequisites enforced at registration.) LING 315 or LING 316. (3; 2 in the half-term). May not be repeated for credit.

LING 432 / COGSCI 432 / NEURO 432 / PSYCH 444. Introduction to Neurolinguistics
LING 209, LING 210, COGSCI 200, or PSYCH 240. (3). (BS). May not be repeated for credit.

LING 433 / ARABIC 507. Arabic Syntax and Semantics
ARABIC 202 or ARABIC 203 completed with a minimum grade of C- or better. (Prerequisites enforced at registration.) (3). May not be repeated for credit.

LING 440. Essentials of First Language Acquisition Theories
LING 315. (Prerequisites enforced at registration.) (3). (BS). May not be repeated for credit.

LING 441. Introduction to Computational Linguistics
One of: COMPFOR 131, EECS 180, 183, ENGR 101, SI 106, or EECS 280. (Prerequisites enforced at registration.) Students planning to take LING 315 and 316 (e.g., Linguistics majors) should take them before taking LING 441. (3). (BS). May not be repeated for credit. Rackham credit requires additional work.

LING 442. The Anatomy of Natural Language Processing Systems
LING 441 or permission of instructor. (Prerequisites enforced at registration.) (3). May not be repeated for credit. Rackham credit requires additional work.

LING 445 / COGSCI 445. Introduction to Machine Learning for Natural Language Processing
EECS 281 and (CogSci 200 or Ling 209 or 313 or 315 or 316). (Prerequisites enforced at registration.) (3). (BS). May not be repeated for credit.

LING 446 / LACS 446. Comparative Linguistics
At least one course in Linguistics/language analysis. (3). May not be repeated for credit. Rackham credit requires additional work.

LING 447 / PSYCH 445. Psychology of Language
PSYCH 240 and PSYCH 349/LING 347. (Prerequisites enforced at registration.) (3). (BS). May not be repeated for credit.

LING 471 / ANTHRCUL 471. Face-to-Face Interaction
(3). May not be repeated for credit.

LING 473 / ANTHRCUL 473. Oral Narrative and Poetics

Two courses in anthropology, linguistics, or literature or permission of instructor. (3; 2 in the half-term). May not be repeated for credit.

LING 492. Topics in Linguistics

(1 - 4). May be repeated for a maximum of 18 credits. May be elected more than once in the same term.

LING 493. Undergraduate Reading

Consent of instructor required. Permission of the concentration advisor. (1 - 3). (INDEPENDENT). May be repeated for a maximum of 6 credits. May be elected more than once in the same term.

LING 494. Undergraduate Reading

Consent of instructor required. Permission of the concentration advisor. (1 - 3). (INDEPENDENT). May not be repeated for credit.

LING 495. Senior Honors Reading Course

Consent of instructor required. Permission of concentration advisor. (1 - 3). (INDEPENDENT). May be repeated for a maximum of 6 credits. May be elected more than once in the same term. Continuing Course. Y grade can be reported at end of the first-term to indicate work in progress. At the end of the second term (LING 496), the final grade is posted for both term's elections. F, W, Sp/Su, Sp, Su.

LING 496. Senior Honors Reading Course

Consent of instructor required. LING 495. (1 - 3). (INDEPENDENT). May not be repeated for credit. F, W, Sp/Su, Su.

LING 497. Capstone Seminar

LING 313, 315 and 316. (Prerequisites enforced at registration.) (3). May be elected twice for credit. May be elected more than once in the same term.

LING 512. Phonetics

LING 313. (4). May not be repeated for credit. F.

LING 513. Phonology

LING 313. (3; 2 in the half-term). May not be repeated for credit. W.

LING 515. Generative Syntax

LING 315 or Permission of Instructor. (3; 2 in the half-term). May not be repeated for credit. F.

LING 516. Semantics and Pragmatics

Permission of instructor. (3; 2 in the half-term). May not be repeated for credit.

LING 541 / CSE 595 / SI 561. Natural Language Processing

Senior standing. (3). (BS). May not be repeated for credit. F.

LSA Lloyd Hall Scholars

Courses In Lloyd Hall Scholars for Writing and the Arts (LSWA)

LSWA 125. College Writing

Participants in the Lloyd Scholars for Writing and the Arts Program. Non-LSWA students welcome and may request permission to enroll pending availability. (4). (FYWR). May not be repeated for credit. A maximum of 20 Lloyd Scholars for Writing and the Arts credits (including any LHSP credits) may be counted toward a degree.

LSWA 130. Writing and the Arts I

Participants in the Lloyd Scholars for Writing and the Arts Program. Non-LSWA students welcome and may request permission to enroll pending availability. (3). (CE). May not be repeated for credit. A maximum of 20 Lloyd Scholars for Writing and the Arts credits (including any LHSP credits) may be counted toward a degree.

LSWA 140. Arts and Humanities

Participants in the Lloyd Scholars for Writing and the Arts Program. Non-LSWA students welcome and may request permission to enroll pending availability. (3). (CE). May be repeated for a maximum of 6 credits. May be elected more than once in the same term. A maximum of 20 Lloyd Scholars for Writing and the Arts credits (including any LHSP credits) may be counted toward a degree.

LSWA 151. Focused Studies

Participants in the Lloyd Scholars for Writing and the Arts Program. (1). May be repeated for a maximum of 3 credits. May be elected more than once in the same term. A maximum of 20 Lloyd Scholars for Writing and the Arts credits (including any LHSP and LSWA credits) may be counted toward a degree.

LSWA 228. What is Writing?

Completion of the First-Year Writing Requirement. Participants in the Lloyd Scholars for Writing and the Arts Program. Non-LSWA students welcome and may request permission to enroll pending availability. (3). (HU). May not be repeated for credit. A maximum of 20 Lloyd Scholars for Writing and the Arts credits (including any LHSP credits) may be counted toward a degree.

LSWA 230. Writing and Arts II

Participants in the Lloyd Scholars for Writing and the Arts Program. Non-LSWA students welcome and may request permission to enroll pending availability. (3). (CE). May be elected twice for credit. A maximum of 20 Lloyd Scholars for Writing and the Arts credits (including any LHSP credits) may be counted toward a degree.

LSWA 299. Independent Study

Consent of instructor required. Participants in the Lloyd Scholars for Writing and the Arts Program. (1 - 4). (INDEPENDENT). May be repeated for a maximum of 8 credits. A maximum of 20 Lloyd Scholars for Writing and the Arts credits (including any LHSP credits) may be counted toward a degree.

LSA Mathematics

Courses In Mathematics (MATH)

MATH 103 / CSP 103. Introduction to Functions

Consent of department required. Open to designated CSP Summer and Summer Bridge Scholars Program students. (3 in the half-term). (BS). (QR/1). May not be repeated for credit. Su.

MATH 105. Data, Functions, and Graphs

(4). (MSA). (BS). (QR/1). May not be repeated for credit. No credit granted to those who have completed any Mathematics course numbered 110 or higher. A maximum of four credits may be earned in MATH 105 and 110.

MATH 110. Pre-Calculus (Self-Study)

MATH 110 is by recommendation or permission of MATH 115 instructor. (2). May not be repeated for credit. No credit granted to those who already have 4 credits for pre-calculus mathematics courses. A maximum of four credits may be earned in MATH 105 and 110.

MATH 115. Calculus I

Four years of high school mathematics. (4). (MSA). (BS). (QR/1). May not be repeated for credit. No credit for students having completed Math 116, 185, 215, or 216.

MATH 116. Calculus II

MATH 115. (4). (MSA). (BS). (QR/1). May not be repeated for credit. Credit is granted for only one course among MATH 116 and 156. No credit for students having completed or enrolled in Math 156, 176, 186, 215, 216, 285, or 286.

MATH 145. Houghton Scholars Calculus Workshop I

Consent of department required. Concurrent enrollment in MATH 115. (2). May not be repeated for credit. Offered mandatory credit/no credit.

MATH 146. Houghton Scholars Calculus Workshop II

Credit in MATH 145. (Prerequisites enforced at registration.) Concurrent enrollment in MATH 116. (2). May not be repeated for credit. Offered mandatory credit/no credit.

MATH 156. Applied Honors Calculus II

Score of 4 or 5 on the AB or BC Advanced Placement calculus exam. (4). (MSA). (BS). (QR/1). May not be repeated for credit. Credit is granted for either MATH 116 or 156, not both. F.

MATH 185. Honors Calculus I

Permission of the Honors advisor. (4). (MSA). (BS). (QR/1). May not be repeated for credit. F.

MATH 186. Honors Calculus II

Permission of the Honors advisor. (4). (MSA). (BS). (QR/1). May not be repeated for credit. Credit is granted for either MATH 176 or 186, not both. W.

MATH 201. An Introduction to Mathematical Writing

Math 115 and intellectual curiosity. (1). (BS). May be elected three times for credit. Offered mandatory credit/no credit.

MATH 205. Calculus of Several Variables

This is a multivariable calculus course that is an alternative to Math 215 for students intending to major in Math, Stats or the Social Sciences. (4). (MSA). (BS). (QR/1). May not be repeated for credit. No credit granted to those who have completed or are enrolled in MATH 215 or MATH 285.

MATH 214. Applied Linear Algebra

MATH 116, 156, 176, 186, or 296. (4). (MSA). (BS). (QR/1). May not be repeated for credit. No credit granted to those who have completed or are enrolled in MATH 217, 417, 419, or 420.

MATH 215. Multivariable and Vector Calculus

MATH 116, 156, 176, 186, or 296. (4). (MSA). (BS). (QR/1). May not be repeated for credit. Credit can be earned for only one of MATH 215 or 285. 2 credits granted to those who have completed or are enrolled in MATH 205.

MATH 216. Introduction to Differential Equations

Permission required after credit earned in MATH 216, 286, or 316. (Prerequisites enforced at registration.) MATH 116, 156, 176, 186, or 296. (4). (MSA). (BS). (QR/1). May not be repeated for credit. Credit can be earned for only one of MATH 216, 286, or 316.

MATH 217. Linear Algebra

MATH 205, 215 or 285. Most students take only one course from MATH 214, 217, 417, and 419. (4). (MSA). (BS). (QR/1). May not be repeated for credit. No credit granted to those who have completed or are enrolled in MATH 419 or 420. Only 2 credits granted to those who have completed MATH 214 or 417.

MATH 275. An Introduction to Cryptology

MATH 115, MATH 120, or permission of math advisor. (4). (MSA). (BS). (QR/1). May not be repeated for credit. No credit granted to those who have completed any prior introduction to proof math course (e.g., 185, 186, 217) with a grade of C or higher. No credit granted to those who have completed any 300 level or higher Mathematics course other than 310, 385, or 489.

MATH 276. Explorations in Calculus

MATH 115, MATH 120, or permission of math advisor; highly recommended for students who have taken MATH 275. (4). (MSA). (BS). (QR/1). May not be repeated for credit. No credit granted to those who have completed or are enrolled in MATH 176 or 186.

MATH 285. Honors Multivariable and Vector Calculus

MATH 156, 176, or 186, or permission of the Honors advisor. (4). (MSA). (BS). (QR/1). May not be repeated for credit. Credit can be earned for only one of MATH 215 or 285. 2 credits granted to those who have completed or are enrolled in MATH 205. F.

MATH 286. Honors Differential Equations

Permission required after credit earned in MATH 216 or 316. (Prerequisites enforced at registration.) MATH 285. (3). (MSA). (BS). (QR/1). May not be repeated for credit. Credit can be earned for only one of MATH 216, 286, or 316. W.

MATH 289. Problem Seminar

(1). (BS). May be repeated for credit.

MATH 295. Honors Mathematics I

Prior knowledge of first year calculus and permission of the Honors advisor. (4). (MSA). (BS). (QR/1). May not be repeated for credit. F.

MATH 296. Honors Mathematics II

MATH 295. (4). (BS). (QR/1). May not be repeated for credit. W.

MATH 297. An Introduction to Analysis

MATH 217 or permission of the Undergraduate Program Director. (Prerequisites enforced at registration.) (4). (MSA). (BS). (QR/1). May not be repeated for credit.

MATH 310. Chance and Choice

Sophomore standing and one previous university math class. (3). (BS). (QR/1). May not be repeated for credit.

MATH 312. Applied Modern Algebra

MATH 217. (3). (BS). May not be repeated for credit. Only one credit granted to those who have completed MATH 412.

MATH 316. Differential Equations

Permission required after credit earned in MATH 216, 256, or 286. (Prerequisites enforced at registration.) MATH 205, 215, 255, or 285; and 217. (3). (BS). May not be repeated for credit. Credit can be earned for only one of MATH 216, 256, 286, or 316.

MATH 333. Directed Tutoring

Consent of instructor required. Enrollment in the secondary teaching certificate program with concentration in Mathematics and permission of instructor. (1 - 3). (EXPERIENTIAL). May be repeated for a maximum of 3 credits. F, W, Sp. Offered mandatory credit/no credit.

MATH 351. Principles of Analysis

MATH 205, 215 or 285; and 217. (3). (BS). May not be repeated for credit. No credit granted to those who have completed or are enrolled in MATH 451.

MATH 354. Fourier Analysis and its Applications

Cannot be taken after MATH 454 without permission. (Prerequisites enforced at registration.) MATH 216, 256, 286, or 316. (3). (BS). May not be repeated for credit. No credit granted to those who have completed or are enrolled in MATH 450 or 454.

MATH 371 / ENGR 371. Numerical Methods for Engineers and Scientists

ENGR 101; one of MATH 216, 256, 286, or 316, and one of MATH 214, 217, 417, or 419. (3). (BS). May not be repeated for credit. No credit granted to those who have completed or are enrolled in MATH 471 or 472.

MATH 389. Explorations in Math Research

Consent of department required. Reasonable familiarity with proofs shown by good performance at the level of MATH 217 or MATH 295 is expected. (3). (BS). May not be repeated for credit.

MATH 395. Honors Analysis I

MATH 296 or permission of the Honors advisor. (4). (BS). May not be repeated for credit.

MATH 396. Honors Analysis II

MATH 395. (4). (BS). May not be repeated for credit. W.

MATH 399. Independent Reading

Consent of instructor required. (1 - 6). (INDEPENDENT). May be repeated for credit. F, W, Sp/Su, Sp, Su.

MATH 403 / DATASCI 403. Introduction to Discrete Mathematics

Linear Algebra (one of MATH 214, 217, 286, 296, 417, or 419) or instructor permission. (3). (BS). May not be repeated for credit. No credit granted to those who have completed or are enrolled in MATH 465, 565, or 566.

MATH 404. Intermediate Differential Equations and Dynamics

MATH 216, 256, 286 or 316. (3). (BS). May not be repeated for credit.

MATH 412. Introduction to Modern Algebra

MATH 205, 215, 255 or 285; and 217; only 1 credit after MATH 312. (3). (BS). May not be repeated for credit. No credit granted to those who have completed or are enrolled in MATH 493. One credit granted to those who have completed MATH 312.

MATH 416. Theory of Algorithms

[MATH 312, 412 or EECS 280] and MATH 465. (3). (BS). May not be repeated for credit.

MATH 417. Matrix Algebra I

Three courses beyond MATH 110. (3). (BS). May not be repeated for credit. No credit granted to those who have completed or are enrolled in MATH 214, 217, 419, or 420. MATH 417 and 419 not be used as electives in the Statistics concentration.

MATH 419. Linear Spaces and Matrix Theory

Four courses beyond MATH 110. (3). (BS). May not be repeated for credit. No credit for those who have completed or are enrolled in 214, 217, 419, or 420. MATH 417 and 419 not be used as electives in the Statistics concentration. F, W, Su.

MATH 420. Advanced Linear Algebra

Linear algebra course (MATH 214, 217, 417, or 419) and one of MATH 296, 412, or 451. (3). (BS). May not be repeated for credit.

MATH 422 / BE 440. Risk Management and Insurance

MATH 115, junior standing, and permission of instructor. (3). (BS). May not be repeated for credit.

MATH 423. Mathematics of Finance

MATH 425 or 525 and MATH 217; EECS 183 or equivalent. (3). (BS). May not be repeated for credit. CREDIT GRANTED FOR ONLY ONE COURSE FROM IOE 453/MFG 456 AND MATH 423.

MATH 424. Mathematical Interest Theory

MATH 205, 215, 255, or 285 or permission of instructor. (3). (BS). May not be repeated for credit.

MATH 425 / STATS 425. Introduction to Probability

MATH 205, 215, or 285. (3). (BS). May not be repeated for credit.

MATH 427. Retirement Plans and Other Employee Benefit Plans

Junior standing. (3). (BS). May not be repeated for credit.

MATH 429. Internship

Concentration in Mathematics. (1). (EXPERIENTIAL). May be elected three times for credit. Continuing Course. Y grade can be reported at end of the first-term to indicate work in progress. At the end of the second term of MATH 429, the final grade is posted for both term's elections. May not apply toward a Mathematics concentration. May be used to satisfy the Curriculum Practical Training (CPT) required of foreign students. Internship credit is not retroactive and must be prearranged. Offered mandatory credit/no credit.

MATH 431. Explorations in Euclidean Geometry

One of MATH 205, 215, 255, or 285 (completed with a minimum grade of C- or better), and MATH 217 (completed with a minimum grade of C- or better). (Prerequisites enforced at registration.) (3). (BS). May not be repeated for credit.

MATH 433. Introduction to Differential Geometry

MATH 205, 215, or 285; and 217. (3). (BS). May not be repeated for credit.

MATH 440. Lab of Geometry at Michigan

Consent of instructor required. MATH 205, 215, or 285. (3). (BS). May be elected three times for credit.

MATH 445 / BIOPHYS 445 / CMPLXSYS 445 / PHYSICS 445. Entropy and Information: Concepts and Applications

MATH 425/STATS 425. (BS). May not be repeated for credit.

MATH 450. Advanced Mathematics for Engineers I

Permission required after credit earned in MATH 354 or 454. (Prerequisites enforced at registration.) MATH 205, 215, or 285; AND MATH 216 or MATH 286 or MATH 316. (4). (BS). May not be repeated for credit. No credit granted to those who have completed or are enrolled in MATH

354 or 454. F, W, Su.

MATH 451. Advanced Calculus I

Previous exposure to abstract mathematics, e.g. MATH 217 and 412. (3). (BS). May not be repeated for credit. No credit granted to those who have completed or are enrolled in MATH 351.

MATH 452. Advanced Calculus II

MATH 217, 419, or 420; and MATH 451. (3). (BS). May not be repeated for credit. W.

MATH 454. Boundary Value Problems for Partial Differential Equations

Permission required after credit earned in MATH 354 or 450. (Prerequisites enforced at registration.) MATH 216, 256, 286 or 316. (3). (BS). May not be repeated for credit. Students with credit for MATH 354 can elect MATH 454 for one credit. No credit granted to those who have completed or are enrolled in MATH 450.

MATH 462. Mathematical Models

MATH 216, 256, 286, or 316; and MATH 214, 217, 417, or 419. Students with credit for MATH 463 must have department permission to elect MATH 462. (3). (BS). May not be repeated for credit. Students with credit for MATH 362 must have department permission to elect MATH 462.

MATH 463 / BIOINF 463 / BIOPHYS 463. Mathematical Modeling in Biology

MATH 214, 217, 417, or 419; and MATH 216, 256, 286, or 316. (3). (BS). May not be repeated for credit.

MATH 465. Introduction to Combinatorics

Linear Algebra (one of MATH 214, 217, 256, 286, 296, 417, or 419) or permission of instructor. (3). (BS). May not be repeated for credit. No credit granted to those who have completed or are enrolled in MATH 565 or 566. Rackham credit requires additional work.

MATH 466 / CMLXSYS 466 / EEB 466. Mathematical Ecology

MATH 217, 417, or 419; MATH 256, 286, or 316; and MATH 450 or 451. (3). May not be repeated for credit. Rackham credit requires additional work.

MATH 471. Introduction to Numerical Methods

MATH 216, 256, 286, or 316; and 214, 217, 417, or 419; and a working knowledge of one high-level computer language. No credit granted to those who have completed or are enrolled in MATH 371 or 472. (3). (BS). May not be repeated for credit. No credit granted to those who have completed or are enrolled in MATH 371 or 472.

MATH 472. Numerical Methods with Financial Applications

Differential Equations (MATH 216, 256, 286, or 316); Linear Algebra (MATH 214, 217, 417, or 419); working knowledge of a high-level computer language. Recommended: MATH 425 or 525. (3). (BS). May not be repeated for credit. No credit granted to those who have completed or are enrolled in MATH 471 or 371.

MATH 474. Introduction to Stochastic Analysis for Finance

MATH 525 and 423. (Prerequisites enforced at registration.) (3). (BS). May not be repeated for credit.

MATH 475. Elementary Number Theory

At least three terms of college Mathematics are recommended. (3). (BS). May not be repeated for credit. W.

MATH 476. Computational Laboratory in Number Theory

Prior or concurrent enrollment in MATH 475 or 575. (1). (BS). May not be repeated for credit.

MATH 481. Introduction to Mathematical Logic

MATH 412 or 451 or equivalent experience with abstract mathematics. (3). (BS). May not be repeated for credit. F.

MATH 486. Concepts Basic to Secondary Mathematics

One of MATH 205, 215, 255, or 285 (completed with a minimum grade of C- or better), and MATH 217 (completed with a minimum grade of C- or better) OR permission of instructor. (Prerequisites enforced at registration.) (3). (BS). May not be repeated for credit. W.

MATH 490. Introduction to Topology

MATH 451 or equivalent experience with abstract mathematics. (3). (BS). May not be repeated for credit.

MATH 493. Honors Algebra I

MATH 296. (3). (BS). May not be repeated for credit.

MATH 494. Honors Algebra II

MATH 493. (Prerequisites enforced at registration.) (3). (BS). May not be repeated for credit.

MATH 498. Topics in Modern Mathematics

Senior Mathematics concentrators and Master Degree students in Mathematical disciplines. (3). (BS). May not be repeated for credit.

MATH 501. Applied & Interdisciplinary Mathematics Student Seminar

At least two 300 or above level math courses, and Graduate standing; Qualified undergraduates with permission of instructor only. (1). May be repeated for a maximum of 6 credits. Offered mandatory credit/no credit.

MATH 507. Mathematical Methods for Algorithmic Trading

(3). May not be repeated for credit.

MATH 511 / CMLXSYS 511. Theory of Complex Systems

(3). (BS). May not be repeated for credit.

MATH 520. Life Contingencies I

MATH 425 or 525 and Math 424 with minimum grade of C-, plus declared Actuarial/Financial Mathematics Concentration. (Prerequisites enforced at registration.) (3). (BS). May not be repeated for credit.

MATH 521. Life Contingencies II

MATH 520 with a grade of C- or higher. (Prerequisites enforced at registration.) (3). (BS). May not be repeated for credit.

MATH 523. Loss Models I

MATH/STATS 425 or 525 with a grade of C- or better. (Prerequisites enforced at registration.) (3). (BS). May not be repeated for credit.

MATH 524. Loss Models II

STATS 426 and MATH 523. (Prerequisites enforced at registration.) (3). (BS). May not be repeated for credit.

MATH 525 / STATS 525. Probability Theory

One semester of multivariable calculus (205, 215, 285, or equivalent) and one semester of analysis (351, 451, or equivalent), OR graduate standing. (Prerequisites enforced at registration.) (3). (BS). May not be repeated for credit.

MATH 526 / STATS 526. Discrete State Stochastic Processes

MATH 525 or STATS 525 or EECS 501. (3). (BS). May not be repeated for credit.

MATH 547 / BIOINF 547 / STATS 547. Mathematics of Data

Basic probability (level of MATH/STATS 425 or MATH/STATS 525), or molecular biology (level of BIOLOGY 427), or biochemistry (level of CHEM/BIOLCHEM 451), or basic programming skills desirable or permission. (3). (BS). May not be repeated for credit.

MATH 550 / CMPLXSYS 510. Introduction to Adaptive Systems

MATH 205, 215, 255, or 285; MATH 217; and MATH 425 or 525. (3). (BS). May not be repeated for credit.

MATH 551. Introduction to Real Analysis

MATH 451 & 452, OR MATH 295 & 296; AND abstract linear algebra such as MATH 217. This course is intended for Math undergraduates & masters students, non-math graduates & non-math undergraduates. (3). (BS). May not be repeated for credit. Math 597.

MATH 555. Introduction to Functions of a Complex Variable with Applications

MATH 451 or equivalent experience with abstract mathematics. (3). (BS). May not be repeated for credit.

MATH 556. Applied Functional Analysis

MATH 217, 419, or 420; MATH 451; and MATH 555. (3). (BS). May not be repeated for credit.

MATH 557. Applied Asymptotic Analysis

MATH 217, 419, or 420; MATH 451; and MATH 555. (3). (BS). May not be repeated for credit.

MATH 558. Applied Nonlinear Dynamics

MATH 451. (3). (BS). May not be repeated for credit.

MATH 559. Selected Topics in Applied Mathematics

MATH 451; and 217, 419, or 420. (3). (BS). May be repeated for a maximum of 6 credits.

MATH 561 / IOE 510 / TO 518. Linear Programming I

MATH 217, 417, or 419. (3). (BS). May not be repeated for credit. F, W, Sp.

MATH 562 / IOE 511. Continuous Optimization Methods

MATH 217, 417, or 419. (3). (BS). May not be repeated for credit.

MATH 565. Combinatorics and Graph Theory

MATH 465. (3). (BS). May not be repeated for credit.

MATH 566. Combinatorial Theory

MATH 465. (3). (BS). May not be repeated for credit.

MATH 567. Introduction to Coding Theory

One of MATH 217, 419, 420. (3). (BS). May not be repeated for credit.

MATH 568 / BIOINF 568. Mathematical and Computational Neuroscience

MATH 463 or 462 (for undergraduate students) or Graduate standing. (Prerequisites enforced at registration.) (3). (BS). May not be repeated for credit.

MATH 571. Numerical Linear Algebra

MATH 214, 217, 417, 419, or 420; and one of MATH 450, 451, or 454. (3). (BS). May not be repeated for credit.

MATH 572. Numerical Methods for Differential Equations

MATH 214, 217, 417, 419, or 420; and one of MATH 450, 451, or 454. (3). (BS). May not be repeated for credit.

MATH 573. Financial Mathematics I

(3). (BS). May not be repeated for credit.

MATH 574. Financial Mathematics II

MATH 526 and MATH 573. (Prerequisites enforced at registration.) Although MATH 506 is not a prerequisite for MATH 574, it is strongly recommended that either these courses are taken in parallel, or MATH 506 precedes MATH 574. (3). (BS). May not be repeated for credit.

MATH 575. Introduction to Theory of Numbers I

MATH 451 and 420 or permission of instructor. (1 - 3). (BS). May not be repeated for credit.

MATH 582. Introduction to Set Theory

MATH 412 or 451 or equivalent experience with abstract mathematics. (3). (BS). May not be repeated for credit.

MATH 590. Introduction to Topology

MATH 451. (3). (BS). May not be repeated for credit. Rackham credit requires additional work.

MATH 591. Differentiable Manifolds

MATH 451, 452 and 590. (3). (BS). May not be repeated for credit.

MATH 592. Introduction to Algebraic Topology

MATH 591. (3). (BS). May not be repeated for credit.

MATH 593. Algebra I

MATH 412, 420, and 451 or MATH 494. (3). (BS). May not be repeated for credit.

MATH 594. Algebra II

MATH 593. (3). (BS). May not be repeated for credit.

MATH 596. Analysis I

MATH 451. (3). (BS). May not be repeated for credit. Students with credit for MATH 555 may elect MATH 596 for two credits only.

MATH 597. Analysis II

MATH 451 and 420; or MATH 395. This course is intended for Math PhD students. (3). (BS). May not be repeated for credit. 2 credits granted to those who have completed or are enrolled in MATH 551.

LSA Middle East Studies

Courses In Arabic Studies (ARABIC)

ARABIC 101. Elementary Arabic I

(5). May not be repeated for credit. No credit granted to those who have taken or are enrolled in ARABIC 103.

ARABIC 102. Elementary Arabic II

ARABIC 101 (completed with a minimum grade of C- or better), or by assignment to ARABIC 102 by placement test. (Prerequisites enforced at registration.) (5). May not be repeated for credit. No credit granted to those who have taken or are enrolled in ARABIC 103.

ARABIC 103. Intensive Elementary Arabic I and II

Recommended for undergraduates majoring in Arabic and those who need Arabic for academic and research purposes. (10 in the half-term). May not be repeated for credit. No credit granted to those who have completed or are enrolled in ARABIC 101 or 102.

ARABIC 121. Qur'anic & Classical Arabic I

(5). May not be repeated for credit.

ARABIC 122. Classical Arabic II

ARABIC 121. (5). May not be repeated for credit.

ARABIC 201. Intermediate Arabic I

ARABIC 102 or ARABIC 103 completed with a minimum grade of C- or better; or by assignment to ARABIC 201 by placement test.

(Prerequisites enforced at registration.) (5). May not be repeated for credit. No credit granted to those who have completed or are enrolled in ARABIC 203.

ARABIC 202. Intermediate Arabic II

ARABIC 201 (completed with a minimum grade of C- or better), or by assignment to ARABIC 202 by placement test. (Prerequisites enforced at registration.) (5). (Lang Req). May not be repeated for credit. No credit granted to those who have completed or are enrolled in ARABIC 203.

ARABIC 203. Intensive Intermediate Arabic I and II

ARABIC 102 with at least a C-. (Prerequisites enforced at registration.) ARABIC 102 or 103. Recommended for Arabic majors and those who need Arabic for academic and research purposes. (10 in the half-term). (Lang Req). May not be repeated for credit. No credit granted to those who have completed or are enrolled in ARABIC 201 or 202.

ARABIC 221. Qur'anic and Classical Arabic III

ARABIC 122. (4). May not be repeated for credit.

ARABIC 222. Classical Arabic IV

ARABIC 221. (4). (Lang Req). May not be repeated for credit.

ARABIC 401. Advanced Arabic I

ARABIC 202, ARABIC 203 completed with a minimum grade of C- or better; or by assignment to ARABIC 401 by placement test. (Prerequisites enforced at registration.) (5). May not be repeated for credit.

ARABIC 402. Advanced Arabic II

ARABIC 401 (completed with a minimum grade of C- or better), or by assignment to ARABIC 402 by placement test. (Prerequisites enforced at registration.) ARABIC 401 or by assignment to ARABIC 402 by placement test. (5). May not be repeated for credit.

ARABIC 425. Levantine Arabic I

ARABIC 102 (completed with a minimum grade of C- or better), or by assignment to ARABIC 425 by the Arabic placement test. (Prerequisites enforced at registration.) (4). May not be repeated for credit.

ARABIC 426. Levantine Arabic II

ARABIC 425 with a minimum grade of C-, or by assignment to ARABIC 426 by the Arabic placement test. (Prerequisites enforced at registration.) (3). (Lang Req). May not be repeated for credit.

ARABIC 499. Independent Study in Arabic

Consent of department required. (1 - 4). (INDEPENDENT). May be elected three times for credit.

ARABIC 501. Advanced Arabic Conversation and Composition

ARABIC 402. (Prerequisites enforced at registration.) (3). May not be repeated for credit.

ARABIC 503. Classical Arabic Grammar

Three years of Arabic study. (3). May not be repeated for credit.

ARABIC 504. Advanced Arabic Media I

ARABIC 402. (Prerequisites enforced at registration.) (4). May not be repeated for credit.

ARABIC 506. Arabic Phonology and Morphophonology

ARABIC 202 or ARABIC 203 (completed with a minimum grade of C- or better). (Prerequisites enforced at registration.) (3). May not be repeated for credit. No credit granted to those who are enrolled in or have completed ARABIC 606.

ARABIC 507 / LING 433. Arabic Syntax and Semantics

ARABIC 202 or ARABIC 203 completed with a minimum grade of C- or better. (Prerequisites enforced at registration.) (3). May not be repeated for credit.

ARABIC 508. Arabic Historical Linguistics and Dialectology

ARABIC 202 or ARABIC 203 (completed with a minimum grade of C- or better). (Prerequisites enforced at registration.) (3). May not be repeated for credit.

ARABIC 509. Arabic Second Language Acquisition

ARABIC 202 or ARABIC 203 completed with a minimum grade of C- or better. (Prerequisites enforced at registration.) (3). May not be repeated for credit.

ARABIC 510. Topics in Arabic Language

ARABIC 402 or advanced proficiency. Students may not take the same topic twice. (3). May be elected three times for credit. May be elected more than once in the same term.

ARABIC 511. Contemporary Arab Cinema

Arabic 402. (Prerequisites enforced at registration.) (3). May not be repeated for credit.

ARABIC 513. Arabic-English Translation: Theory and Practice

Completion of ARABIC 402 or permission of the instructor. (3). May not be repeated for credit. Rackham credit requires additional work.

ARABIC 530. Arabic Poetry and Discourses of Empire

Completion of ARABIC 402 or advanced Arabic proficiency. (3). May not be repeated for credit.

Courses In Armenian Studies (ARMENIAN)

ARMENIAN 101. Western Armenian I

(4). May not be repeated for credit. No credit granted to those who have completed or are enrolled in ARMENIAN 103 (ARMENIAN 173/AAPTIS 173).

ARMENIAN 102. Western Armenian II

ARMENIAN 101 (AAPTIS 171). (4). May not be repeated for credit. No credit granted to those who have completed or are enrolled in

ARMENIAN 103(AAPTIS 173).

ARMENIAN 201. Intermediate Western Armenian I

ARMENIAN 102 (AAPTIS/ARMENIAN 172) or ARMENIAN 103 (AAPTIS/ARMENIAN 173). (4). May not be repeated for credit.

ARMENIAN 202. Intermediate Western Armenian II

ARMENIAN 201 (AAPTIS 271). (4). (Lang Req). May not be repeated for credit.

ARMENIAN 389 / HISTORY 389 / MIDEAST 389. From Natives to Foreigners: Armenians in Turkey and the Diaspora

(3). (SS). (R&E). May not be repeated for credit.

ARMENIAN 401. Introduction to Classical Armenian

No prior Armenian language experience is required. The course will be taught in English and will work to assist students in using resources, like dictionaries, etc. to help them read classical Armenian. (4). May be elected twice for credit.

ARMENIAN 410. Topics in Armenian Language

At least two years of coursework in Armenian or permission of instructor. (3). May be elected three times for credit.

ARMENIAN 499. Independent Study in Armenian

Consent of department required. (1 - 4). (INDEPENDENT). May be elected three times for credit. May be elected more than once in the same term.

Courses In Hebrew Studies (HEBREW)

HEBREW 101. Elementary Modern Hebrew I

(5). May not be repeated for credit. No credit granted to those who have taken or are enrolled in HEBREW 103 (HJCS 110).

HEBREW 102. Elementary Modern Hebrew II

HEBREW 101 OR PLACEMENT BY EXAM. (Prerequisites enforced at registration.) (5). May not be repeated for credit. No credit granted to those who have taken or are enrolled in HEBREW 103 (HJCS 110).

HEBREW 201. Intermediate Modern Hebrew I

HEBREW 102, 103, OR PLACEMENT BY EXAM. (Prerequisites enforced at registration.) (5). May not be repeated for credit. No credit granted to those who have completed or are enrolled in HEBREW 203 (HJCS 210).

HEBREW 202. Intermediate Modern Hebrew II

HEBREW 201 or PLACEMENT BY EXAM. (Prerequisites enforced at registration.) (5). (Lang Req). May not be repeated for credit. No credit granted to those who have completed or are enrolled in HEBREW 203 (HJCS 210).

HEBREW 301. Advanced Hebrew I

HEBREW 202, 203 OR PLACEMENT BY EXAM. (Prerequisites enforced at registration.) (3). May not be repeated for credit.

HEBREW 302. Advanced Hebrew II

HEBREW 301 or PLACEMENT BY EXAM. (Prerequisites enforced at registration.) (3). May not be repeated for credit.

HEBREW 409. Readings in Modern Hebrew

Consent of instructor required. Intermediate level proficiency or higher in modern Hebrew. (1 - 2). (INDEPENDENT). May be elected four times for credit. May be elected more than once in the same term.

HEBREW 410. Topics in Modern Hebrew Language

Completion of at least HEBREW 202 or intermediate Hebrew proficiency. (3). May be elected three times for credit.

HEBREW 499. Independent Study in Hebrew

Consent of department required. (1 - 4). (INDEPENDENT). May be elected three times for credit. May be elected more than once in the same term.

Courses In Middle East Languages (MELANG)

MELANG 101 / JUDAIC 120 / RELIGION 110. Elementary Classical Hebrew I

(3). May not be repeated for credit.

MELANG 410. Topics in Middle East Languages

Students should not enroll in the same topic twice. (3). May be elected four times for credit.

MELANG 415. Elementary Hittite

(3). May not be repeated for credit.

MELANG 430. Introduction to Middle Egyptian I

(3). May not be repeated for credit.

MELANG 431. Introduction to Middle Egyptian II

MELANG 430 (NESLANG 430). (Prerequisites enforced at registration.) (3). May not be repeated for credit.

MELANG 450. Introductory Central Asian Language I

(4 - 5). May be elected three times for credit. May be elected more than once in the same term.

MELANG 451. Introductory Central Asian Language II

MELANG 450 (or NESLANG 450 or ASIANLAN 119), with a minimum grade of C- or better. (Prerequisites enforced at registration.) (4 - 5). May be elected three times for credit. May be elected more than once in the same term. May not repeat the same language at the same level.

MELANG 470 / GREEK 473. Advanced Koine

Two years of Greek, one term of New Testament Greek (300 level or equivalent). (3). May not be repeated for credit.

MELANG 499. Independent Study in Middle East Languages

Consent of department required. (1 - 4). (INDEPENDENT). May be elected three times for credit. May be elected more than once in the same term.

MELANG 505. Intermediate Central Asian Language I

MELANG 451 (or NESLANG 451 or ASIANLAN 120), with a minimum grade of C- or better. (Prerequisites enforced at registration.) (3 - 5). May be elected three times for credit. May be elected more than once in the same term. Students may not repeat the same language at the same level.

MELANG 506. Intermediate Central Asian Language II

(Lang Req). May be elected three times for credit. May be elected more than once in the same term. Rackham credit requires additional work.

MELANG 513. Readings in Akkadian

MELANG 420. (Prerequisites enforced at registration.) (3). May not be repeated for credit.

MELANG 514. Akkadian Literary Texts

MELANG 513. (3). May be elected nine times for a maximum of 12 credits.

MELANG 537. Readings in Sumerian

MELANG 435 (NESLANG 435). (3). May be repeated for a maximum of 12 credits.

MELANG 550. Advanced Central Asian Language I

MELANG 506 (NESLANG 481), completed with a minimum grade of C- or better. (Prerequisites enforced at registration.) (3 - 4). May be elected three times for credit. May be elected more than once in the same term. May not repeat the same language at the same level.

MELANG 551. Advanced Central Asian Language II

MELANG 550 (NESLANG 550). (Prerequisites enforced at registration.) (3 - 4). May be elected three times for credit. May be elected more than once in the same term. May not repeat the same language at the same level.

Courses In Middle East Studies (MIDEAST)**MIDEAST 200. Introduction to the Middle East**

(4). (HU). (R&E). May not be repeated for credit. No credit granted to students who have taken NEAREAST 100.

MIDEAST 201 / HISTORY 242 / STS 202. Madness, Medicine, and Magic in the Middle East

(4). (HU). May not be repeated for credit.

MIDEAST 203. Sports and Games in the Middle East

(4). (SS). May not be repeated for credit.

MIDEAST 207 / RELIGION 277. The Land of Israel/Palestine through the Ages

(4; 3 in the half-term). (HU). (R&E). May not be repeated for credit.

MIDEAST 209 / ENVIRON 219. Food and Drink in the Middle East

(4). (SS). May not be repeated for credit.

MIDEAST 214. Collapse and Resilience: The Bronze Age in the Middle East, North Africa, and the Mediterranean

(3). (ID). May not be repeated for credit.

MIDEAST 216 / ISLAM 216 / RELIGION 204. Islam in History

(3). (HU). May not be repeated for credit.

MIDEAST 221 / AMAS 229 / AMCULT 229 / ISLAM 221. The Qur'an as Utopian Text

(4). (HU). May not be repeated for credit.

MIDEAST 222. From Kim Kardashian to Movses Khorenatsi: Deciphering the Armenian Experience

(3). (HU). (R&E). May not be repeated for credit.

MIDEAST 223 / FTVM 322. How To Survive Dark Times: A Century of Armenian Film

(3). (HU). May not be repeated for credit.

MIDEAST 236 / RELIGION 236. Introduction to the New Testament

(4; 3 in the half-term). (HU). May not be repeated for credit.

MIDEAST 238 / ISLAM 238 / JUDAIC 280 / RELIGION 280. The Historical Jesus in Christianity, Judaism, and Islam

(4; 3 in the half-term). (HU). May not be repeated for credit.

MIDEAST 239. Mythology of the Ancient Middle East

(3). (HU). May not be repeated for credit.

MIDEAST 240. Ancient Egypt: Religion and Culture

(4; 3 in the half-term). (HU). May not be repeated for credit.

MIDEAST 242 / RELIGION 270. Rabbis: Literature and Culture

(3). (HU). May not be repeated for credit. No credit granted to those who have completed or are enrolled in HJCS 470 or JUDAIC 470 or HJCS 570 or ACABS 570 or JUDAIC 570.

MIDEAST 243 / HISTORY 293. Ancient Egypt and its World

(4; 3 in the half-term). (HU). May not be repeated for credit.

MIDEAST 244. The Otherworldly Past: Ancient Middle East in Science Fiction and Fantasy

(3). (HU). (R&E). May not be repeated for credit.

MIDEAST 246 / HISTORY 273. History and Archaeology of Ancient Turkey to the Conquests of Alexander the Great

Previous knowledge in the history of ancient Western Asia. (3). (HU). May not be repeated for credit.

MIDEAST 247. How Religions are Born: The Origins of Judaism and Christianity

(3). (HU). May not be repeated for credit.

MIDEAST 262 / JUDAIC 262 / RELIGION 261. The Bible and the Quran

No credit in JUDAIC 217 with the topic *The Bible and the Quran*. (Prerequisites enforced at registration.) (3). (HU). May not be repeated for credit.

MIDEAST 275 / AMAS 215 / AMCULT 215. Introduction to Arab-American Studies

(4). (HU). (R&E). May not be repeated for credit.

MIDEAST 276 / JUDAIC 205. What is Judaism?

(3). (HU). May not be repeated for credit. No credit granted to those who have completed or are enrolled in JUDAIC 505 or HJCS 576.

MIDEAST 277 / HISTORY 276 / JUDAIC 261. Lost Books That Rewrote the Bible

(3). (HU). May not be repeated for credit.

MIDEAST 279 / JUDAIC 255. Tel Aviv and Jerusalem in Israeli Culture

(3). (HU). May not be repeated for credit.

MIDEAST 280 / FTVM 250 / JUDAIC 250. Screening Jewish Cultures

(3). (HU). (R&E). May not be repeated for credit.

MIDEAST 281 / JUDAIC 281 / SLAVIC 281. Jews in the Modern World: Texts, Images, Ideas

(4). (HU). (R&E). May not be repeated for credit.

MIDEAST 284 / HISTORY 244 / JUDAIC 244 / MENAS 244. The History of the Arab-Israeli Conflict

(4; 3 in the half-term). (SS). (R&E). May not be repeated for credit.

MIDEAST 285 / HISTART 285 / ISLAM 285. Visual Culture Islam
(4). (HU). May not be repeated for credit.

MIDEAST 290. Topics in Middle East Studies
(3). May be elected twice for credit. May be elected more than once in the same term.

MIDEAST 291. Humanities Topics in Middle East Studies
(3). (HU). May be elected twice for credit.

MIDEAST 292. Mini-course in Middle East Studies
(1 - 3). May be elected twice for credit. May be elected more than once in the same term.

MIDEAST 295. First Year Seminar in Middle East Studies
Enrollment restricted to first-year students, including those with sophomore standing. (3). (HU). May not be repeated for credit.

MIDEAST 305. Demons, Jinn, Curses, and Ghosts: Global Horror and the Supernatural
(4). (HU). May not be repeated for credit.

MIDEAST 308 / INTLSTD 308 / MENAS 308. Conflict and Comics: Reframing the Middle East
(3). (HU). May not be repeated for credit.

MIDEAST 309. Sin, Sex, and Desire: Romance in the Middle East
(3). (HU). May not be repeated for credit.

MIDEAST 313 / FRENCH 347 / JUDAIC 340 / MENAS 341. Colonialism in North Africa: 1800-Present
(3). (HU). May not be repeated for credit.

MIDEAST 315 / ISLAM 315. Introduction to Arab Culture
(4). (HU). (R&E). May not be repeated for credit.

MIDEAST 319 / HISTORY 306 / ISLAM 319. History of the Ottoman Empire: The "Classical Age", (ca. 1300-1600)
Not available to students who have completed AAPTIS 291 (#16) or HISTORY 303 (#10) when taught with the topic "Ten Sultans, One Empire: The Ottoman Classical Age". (Prerequisites enforced at registration.) (3). (HU). May not be repeated for credit.

MIDEAST 320 / HISTORY 307 / ISLAM 320. History of the Ottoman Empire: The "Post-Classical Age", (ca. 1600-1922)
Not available to students who have completed AAPTIS 291 (#17) or HISTORY 303 (#13) when taught with the topic "The Ottoman Empire in the Post Classical Age". (Prerequisites enforced at registration.) (3). (HU). May not be repeated for credit.

MIDEAST 321 / ISLAM 321. Jihad in History
(3). (HU). May not be repeated for credit.

MIDEAST 322 / RELIGION 363. The Qur'an and Its Interpretations
No prior knowledge of Islam is necessary, although some knowledge of the Bible would be helpful. (3). (HU). May not be repeated for credit.

MIDEAST 323 / ISLAM 323. The Prophet Muhammad in Islam
(3). (HU). May not be repeated for credit.

MIDEAST 331 / FTVM 321. Iranian Cinema: Re/Presenting a Nation
(3). (HU). (R&E). May not be repeated for credit.

MIDEAST 332. Islam and the West: Myth and Reality
(3). May not be repeated for credit.

MIDEAST 334 / ENGLISH 337 / JUDAIC 334 / RELIGION 334. The Bible as a Material Object
No credit in JUDAIC 318 with the topic The Bible as a Material Object. (Prerequisites enforced at registration.) (3). (HU). May not be repeated for credit.

MIDEAST 335 / JUDAIC 335 / RELIGION 359. History and Religion of Second Temple Judaism
(3). (HU). May be elected three times for credit.

MIDEAST 336 / HISTORY 308 / RELIGION 350. The Earliest Christians
(HU). May not be repeated for credit.

MIDEAST 337 / ANTHRARC 384. Ancient Mesopotamia: History and Culture
Sophomore standing. (4; 3 in the half-term). (ID). May not be repeated for credit.

MIDEAST 338 / ANTHRARC 381 / HISTART 382. Introduction to Egyptian Archaeology
(4; 3 in the half-term). (HU). May not be repeated for credit.

MIDEAST 340 / ASIAN 340 / HISTORY 340 / MENAS 340 / REEES 340. From Genghis Khan to the Taliban: Modern Central Asia
(4; 3 - 4 in the half-term). (SS). (R&E). May not be repeated for credit.

MIDEAST 341 / RCIDIV 341 / STS 342. Science and Technology in the Ancient Middle East
MIDEAST 200: Introduction to the Middle East. (3). (ID). May not be repeated for credit.

MIDEAST 343 / JUDAIC 375. Archaeology and the Bible
(4). (ID). May not be repeated for credit.

MIDEAST 344 / WGS 317. Sex and Gender in the Ancient Middle East
(3). (ID). May not be repeated for credit.

MIDEAST 353. Jews and Leisure Institutions in the Roman World
(3). (HU). May not be repeated for credit.

MIDEAST 354 / ARCHAM 354 / CLCIV 354 / RELIGION 353. Ancient Jerusalem: Archaeology, Religion, and Culture
(3). (ID). May not be repeated for credit.

MIDEAST 355 / ARCHAM 327 / CLCIV 327 / RELIGION 326. Jews in the Roman Mediterranean: Archaeology, Religion, and Culture
(3). (ID). May not be repeated for credit.

MIDEAST 356 / JUDAIC 373. Israeli Culture and Society
(3). (SS). May not be repeated for credit.

MIDEAST 373 / JUDAIC 374 / RELIGION 373. Religions of the Jews
(3). (HU). May not be repeated for credit.

MIDEAST 375 / ASIAN 324 / HISTORY 325 / ISLAM 325 / MEMS 325 / RELIGION 325. The History of Islam in South Asia
(4). (HU). (R&E). May not be repeated for credit.

MIDEAST 381 / ANTHRCUL 348 / INTLSTD 381. Anthropology of Islam
(3). (SS). May not be repeated for credit.

MIDEAST 382 / JUDAIC 378. Modern Questions, Biblical Answers
 (3). (HU). May not be repeated for credit.

MIDEAST 386 / JUDAIC 360. A Global History of the Jews of Spain
 JUDAIC 205. (3). (HU). May not be repeated for credit.

MIDEAST 387 / HISTORY 397 / WGS 397. Religion and Politics in Contemporary Iran
 (3). (ID). May not be repeated for credit.

MIDEAST 389 / ARMENIAN 389 / HISTORY 389. From Natives to Foreigners: Armenians in Turkey and the Diaspora
 (3). (SS). (R&E). May not be repeated for credit.

MIDEAST 390. Topics in Middle East Studies
 At least one previous course in Near Eastern studies. (3). May be elected twice for credit. May be elected more than once in the same term.

MIDEAST 391. Humanities Topics in Middle East Studies
 At least one previous course in Middle East studies. Students should not elect the same topic twice. (3). (HU). May be elected twice for credit.

MIDEAST 392. Mini-course in Middle East Studies
 (1 - 3). May be elected twice for credit. May be elected more than once in the same term.

MIDEAST 394 / HISTORY 394 / ISLAM 394. History of the Turkish Republic
 (3). (HU). May not be repeated for credit.

MIDEAST 416. The Sultan and His Subjects: Society and Culture in the Ottoman Empire
 (3). May not be repeated for credit.

MIDEAST 418 / ISLAM 418 / REEES 418 / RUSSIAN 418. Islam in/and Russia: Russia's Encounters with Islam and Muslims
 (3). May not be repeated for credit.

MIDEAST 421 / RELIGION 465. Islamic Mysticism: Sufism in Time and Space
 (3). May not be repeated for credit.

MIDEAST 423 / ISLAM 423 / RELIGION 423. Islamic Law/Shariah
 NEAREAST 216. (3). May not be repeated for credit.

MIDEAST 427. Rumi: The Times, Poetry, and Legacy of a Sufi Master
 (3). May not be repeated for credit.

MIDEAST 434 / ISLAM 434 / MEMS 434. Shahnameh: Iranian Myth, Epic, and History
 (3). May not be repeated for credit.

MIDEAST 438. Exhibiting Ancient Egypt: Past Culture in the Modern Museum
 (3). May not be repeated for credit.

MIDEAST 441 / WGS 487. Gender and Society in Ancient Egypt
 Some familiarity with Egypt is helpful. (3). May not be repeated for credit.

MIDEAST 450 / INTLSTD 450 / WGS 450. Transnational Feminisms
 At least one prior course in Women's and Gender Studies, Middle East Studies, or International Studies. (3). May not be repeated for credit. Rackham credit requires additional work.

MIDEAST 456 / JUDAIC 468 / RELIGION 469. Jewish Mysticism
 (3). May not be repeated for credit.

MIDEAST 480 / ANTHRCUL 430 / HISTORY 430. History, Memory, and Silence in the Middle East
 (3). May not be repeated for credit.

MIDEAST 483 / MENAS 493. Comparative Perspectives of the Middle East and North Africa
 (1). May be repeated for a maximum of 12 credits. May be elected more than once in the same term. Rackham credit requires additional work.

MIDEAST 487 / HISTORY 443 / ISLAM 443. Modern Middle East History
 (4). May not be repeated for credit.

MIDEAST 490. Topics in Middle East Studies
 (3). May be elected twice for credit. May be elected more than once in the same term.

MIDEAST 498. Senior Honors Thesis
 Consent of department required. (1 - 4). (INDEPENDENT). May be elected twice for credit.

MIDEAST 499. Independent Study in Middle East Studies
 Consent of department required. (1 - 4). (INDEPENDENT). May be elected four times for credit. May be elected more than once in the same term.

MIDEAST 517. Classical Persian Texts
 PERSIAN 202. (3). May be elected four times for credit.

MIDEAST 518. Persianate History Through Political and Cultural Texts
 PERSIAN 202 or advanced reading knowledge of Persian. (3). May be repeated for a maximum of 9 credits.

MIDEAST 520. Readings in Classical Islamic Texts
 ARABIC 402. (3). May be elected four times for credit.

MIDEAST 590. Topics in Middle East Studies
 Upper-level undergraduates or graduate students with previous coursework in Middle East Studies. (3). May be elected three times for credit. May be elected more than once in the same term.

MIDEAST 601 / HISTORY 664. Studies in the Modern Middle East
 (3). May not be repeated for credit.

Courses In Persian (PERSIAN)

PERSIAN 101. Elementary Persian I
 (4). May not be repeated for credit. No credit granted to those who have completed or are enrolled in PERSIAN 103 (AAPTIS 143).

PERSIAN 102. Elementary Persian II
 PERSIAN 101 (AAPTIS 141). (4). May not be repeated for credit. No credit granted to those who have completed or are enrolled in PERSIAN 103 (AAPTIS 143).

PERSIAN 201. Intermediate Persian I

PERSIAN 102 (AAPTIS 142) or PERSIAN 103 (AAPTIS 143). (4). May not be repeated for credit.

PERSIAN 202. Intermediate Persian II

PERSIAN 201 (AAPTIS 241). (4). (Lang Req). May not be repeated for credit.

PERSIAN 409. Readings in Persian

Consent of instructor required. (1 - 2). (INDEPENDENT). May be elected four times for credit. May be elected more than once in the same term.

PERSIAN 410. Topics in Persian Language

Advanced proficiency in Persian or permission of instructor. (3). May be elected three times for credit.

PERSIAN 499. Independent Study in Persian

Consent of department required. (1 - 4). (INDEPENDENT). May be elected three times for credit. May be elected more than once in the same term.

PERSIAN 503. Modern Persian Poetry: The Song of Revolution

At least second-year proficiency in Persian. (3). May not be repeated for credit.

PERSIAN 504. Modern Persian Fiction

PERSIAN 202 (AAPTIS 242). (3). May be elected twice for credit.

PERSIAN 505. Modern Persian Nonfiction

PERSIAN 202 (AAPTIS 242). Taught in Persian. (3). May be elected twice for credit.

Courses In Turkish Studies (TURKISH)

TURKISH 101. Elementary Turkish I

(4). May not be repeated for credit. No credit granted to those who have completed or are enrolled in TURKISH 103 (AAPTIS 155).

TURKISH 102. Elementary Turkish II

TURKISH 101 (AAPTIS 151) or equivalent. (4). May not be repeated for credit. No credit granted to those who have completed or are enrolled in TURKISH 103 (AAPTIS 155).

TURKISH 201. Intermediate Turkish I

TURKISH 102 (AAPTIS 152) or TURKISH 103 (AAPTIS 155). (4). May not be repeated for credit. No credit granted to those who have completed or are enrolled in TURKISH 203 (AAPTIS 255).

TURKISH 202. Intermediate Turkish II

TURKISH 201 (AAPTIS 251). (4). (Lang Req). May not be repeated for credit. No credit granted to those who have completed or are enrolled in TURKISH 203 (AAPTIS 255).

TURKISH 410. Topics in Turkish Language

Advanced Turkish proficiency or permission of instructor. (3). May be elected three times for credit.

TURKISH 499. Independent Study in Turkish

Consent of department required. (1 - 4). (INDEPENDENT). May be elected three times for credit. May be elected more than once in the same term.

TURKISH 504. Modern Turkish Readings and Communication

TURKISH 202 (AAPTIS 252) or TURKISH 203 (AAPTIS 255). (3). May be elected three times for credit.

LSA Molecular, Cellular, and Developmental Biology

Courses In Molecular, Cellular, and Developmental Biology (MCDB)

MCDB 300. Undergraduate Research

Consent of instructor required. Eight credits of BIOLOGY/MCDB courses; 3.0 GPA in science courses. (1 - 3). (BS). (INDEPENDENT). May be repeated for a maximum of 9 credits. Continuing Course. Y grade can be reported at end of the first-term to indicate work in progress. At the end of the second term (MCDB 300 or 400), the final grade is posted for both term's elections. Three credits of independent research must be completed in one term to satisfy a Biology laboratory requirement. A maximum of three credits of any independent study course may count toward the Biology concentration programs.

MCDB 301. Active Learning Assistant

Consent of instructor required. BIOLOGY 171, 172/174, and 173, as well as experience in the target course subject matter. (2). (EXPERIENTIAL). May be elected four times for credit. 8 credits max allowed between EEB 301 and MCDB 301. Offered mandatory credit/no credit.

MCDB 302. Teaching Experience for Undergraduates

Consent of instructor required. (1 - 3). (EXPERIENTIAL). May not be repeated for credit.

MCDB 306. Introductory Genetics Laboratory

BIOLOGY 171 & 172 (or 174) & 173; or BIOLOGY 192 & 173; or BIOLOGY 195 & 173. (Prerequisites enforced at registration.) Prior or concurrent enrollment in BIOLOGY 305. (3). (BS). May not be repeated for credit. F and W. Satisfies a Biology laboratory requirement.

MCDB 310. Introductory Biochemistry

CHEM 210; and one of: BIOLOGY 172 or 174 or 192 or [195 and 173]. (Prerequisites enforced at registration.) Prior or concurrent enrollment in CHEM 215. (4). (BS). May not be repeated for credit. No credit granted to those who have completed or are enrolled in BIOLCHEM 415 or 451 or 515, or CHEM 351 or 451.

MCDB 321. Introductory Plant Physiology Lectures

BIOLOGY 171 and either 172 or 174; or BIOLOGY 192; or BIOLOGY 195. (Prerequisites enforced at registration.) College Physics recommended. (3). (BS). May not be repeated for credit.

MCDB 322 / NEURO 322. Principles of Cellular and Molecular Neuroscience

BIOLOGY 225 or PSYCH 230. (Prerequisites enforced at registration.) (4). (NS). (BS). May not be repeated for credit. MCDB 351.

MCDB 396. Science Outreach for Biology

BIOLOGY 172, 174, 192, or 195. (Prerequisites enforced at registration.) (3). (BS). May not be repeated for credit.

MCDB 400. Advanced Research

MCDB 300. (Prerequisites enforced at registration.) 12 credits of biology, 3.0 average in science, and permission of faculty member in biology. (1 - 3). (BS). (INDEPENDENT). May be repeated for a maximum of 9 credits. Continuing Course. Y grade can be reported at end of the first-term to indicate work in progress. At the end of the second term of MCDB 400, the final grade is posted for both term's elections. Three credits of independent research must be completed in one term to satisfy a Biology laboratory requirement. A maximum of three credits of any independent study course may count toward the Biology concentration programs.

MCDB 401. Advanced Topics in Biology

Seniors or Graduate standing. Prerequisites will be set by the instructor as appropriate for each section. (1 - 4). (BS). May be repeated for a maximum of 6 credits. May be elected more than once in the same term.

MCDB 405. Molecular Basis of Development

BIOLOGY 305; or graduate standing. (Prerequisites enforced at registration.) (3). (BS). May not be repeated for credit.

MCDB 408. Genomic Biology

BIOLOGY 305. (Prerequisites enforced at registration.) (3). (BS). May not be repeated for credit. Rackham credit requires additional work.

MCDB 411. Protein Structure and Function

MCDB 310, BIOLCHEM 415, or CHEM 351. Or Graduate standing. (Prerequisites enforced at registration.) (3). (BS). May not be repeated for credit. F.

MCDB 412. Teaching Biology

Consent of instructor required. (3). (EXPERIENTIAL). May be elected twice for credit. F.

MCDB 415. Microbial Genetics

BIOLOGY 305; and MCDB 310, BIOLCHEM 415, or CHEM 351. Or Graduate Standing. (Prerequisites enforced at registration.) (3). (BS). May not be repeated for credit.

MCDB 417. Chromosome Structure and Function

BIOLOGY 305 or graduate standing. (Prerequisites enforced at registration.) (3). (BS). May not be repeated for credit. Rackham credit requires additional work.

MCDB 420 / BIOPHYS 420. Structural Biology: The Architecture of Life

Students should have knowledge of physical chemistry and biochemistry, as covered in the curricula of: CHEM 230 or CHEM 260 or BIOPHYS 370; CHEM 351, MCDB 310 or BIOLCHEM 415. (3). (BS). May not be repeated for credit.

MCDB 421 / NEURO 421. Topics in Cellular and Molecular Neurobiology

BIOLOGY 225, BIOLOGY 305, and PSYCH 230 or NEUROSCI 601. (3). (BS). May be elected twice for credit. May be elected more than once in the same term. Rackham credit requires additional work.

MCDB 422 / NEURO 422. Brain Development, Plasticity, and Circuits

MCDB 310 or 311, or BIOLCHEM 415, or CHEM 351; or graduate standing. (Prerequisites enforced at registration.) (3). (BS). May not be repeated for credit. F.

MCDB 423 / NEURO 423. Introduction to Research in Cellular and Molecular Neurobiology

BIOLOGY 173. (Prerequisites enforced at registration.) BIOLOGY 225 or BIOLOGY 222 or MCDB 322; or concurrent enrollment in MCDB 422. (3). (BS). May not be repeated for credit. F and W. Satisfies a Biology laboratory requirement.

MCDB 424 / NEURO 424. Behavioral Neurobiology Laboratory

(BIOLOGY 222 or MCDB 322 or BIOLOGY 225 or PSYCH 230) and BIOLOGY 173. (Prerequisites enforced at registration.) BIOLOGY 305. (2). (BS). May not be repeated for credit. Rackham credit requires additional work.

MCDB 426 / NEURO 426. Molecular Endocrinology

BIOLOGY 225; and one of: MCDB 310 or 311, or BIOLCHEM 415, or CHEM 351; or Graduate standing. (Prerequisites enforced at registration.) (3). (BS). May not be repeated for credit.

MCDB 427. Molecular Biology

BIOLOGY 305, and one of MCDB 310 or BIOLCHEM 415 or CHEM 351; OR Graduate standing. (Prerequisites enforced at registration.) (4). (BS). May not be repeated for credit. F.

MCDB 428. Cell Biology

MCDB 310, BIOLCHEM 415, or CHEM 351; or graduate standing. (Prerequisites enforced at registration.) (4). (BS). May not be repeated for credit. Students with credit for MCDB 320 must obtain permission of instructor. W.

MCDB 429. Laboratory in Cell and Molecular Biology

BIOLOGY 173. (Prerequisites enforced at registration.) Previous or concurrent enrollment in BIOLOGY 305 and (MCDB 310, BIOLCHEM 415, or CHEM 351). (3). (BS). May not be repeated for credit. This course can be used to satisfy requirements for the Cell and Molecular Biology Concentration and the Biology Concentration. W. Satisfies a Biology laboratory requirement.

MCDB 430. Molecular Biology of Plants

BIOLOGY 305; and MCDB 310, BIOLCHEM 415, CHEM 351, or graduate standing. (3). (BS). May not be repeated for credit. W.

MCDB 434. Protein Misfolding Diseases

MCDB 310, BIOLCHEM 415, or CHEM 351. (Prerequisites enforced at registration.) (3). (BS). May not be repeated for credit. Rackham credit requires additional work.

MCDB 435. Mechanisms of Disease: Intracellular Trafficking

BIOLOGY 305; or Graduate Standing. (Prerequisites enforced at registration.) BIOLOGY 272 or BIOLOGY 205. (3). (BS). May not be repeated for credit.

MCDB 436. Human Immunology

One of the following: BIOLOGY 205, 207, 222, 225, 272, or 305; MCDB 322; graduate standing; or instructor permission. (Prerequisites enforced at registration.) (3). (BS). May not be repeated for credit. MICRBIOL/IMMUNO 440/540. Only one of MICRBIOL 440 or IMMUNO 440 or MCDB 436 will count toward a Microbiology major.

MCDB 438. Advanced Biochemistry: Molecular Basis of Biology and Medicine

MCDB 310, BIOLCHEM 415, or CHEM 351; or graduate standing. (Prerequisites enforced at registration.) (3). (BS). May not be repeated for credit. No credit granted to those who have completed or are enrolled in MCDB/BIOPHYS 420.

MCDB 440. Cell Cycle Control and Cancer

Genetics (BIOLOGY 305) and Biochemistry (MCDB 310, CHEM 351, or BIOLCHEM 415). (Prerequisites enforced at registration.) (3). (BS). May not be repeated for credit. Rackham credit requires additional work.

MCDB 441 / NEURO 441. Cell Biology and Disease

MCDB 310 or MCDB 311 or BIOLCHEM 415 or CHEM 351. (Prerequisites enforced at registration.) (3). (BS). May not be repeated for credit. Rackham credit requires additional work.

MCDB 448. Telomerase Function in Stem Cells and Cancers

BIOLOGY 305 and (MCDB 310 or CHEM 351 or BIOLCHEM 415). (Prerequisites enforced at registration.) (3). (BS). May not be repeated for credit. Rackham credit requires additional work.

MCDB 451 / NEURO 451. Molecular Neurobiology of Health and Disease

BIOLOGY 222 or 225, or MCDB 322; and one of: BIOLOGY 305 or Biochemistry (MCDB 310, BIOLCHEM 415, or CHEM 351). (Prerequisites enforced at registration.) Biochemistry experience is recommended. (3). (BS). May not be repeated for credit. Rackham credit requires additional work.

MCDB 452 / NEURO 452. The Visual System

MCDB 322 or BIOLOGY 222 or [225 and (MCDB 310 or BIOLCHEM 415 or CHEM 351)] or NEUROSCI 614 or Graduate Standing. (Prerequisites enforced at registration.) (3). (BS). May not be repeated for credit. Rackham credit requires additional work.

MCDB 453 / NEURO 453. Ion Channels and their Channelopathies

[Biology 222 OR MCDB 322 OR permission of the instructor]. (Prerequisites enforced at registration.) (3). (BS). May not be repeated for credit. Rackham credit requires additional work.

MCDB 454. Cytoskeletal Dynamics

BIOLOGY 305; and one of: MCDB 310 or BIOLCHEM 415 or CHEM 351. (Prerequisites enforced at registration.) (3). (BS). May not be repeated for credit. Rackham credit requires additional work.

MCDB 458 / NEURO 458. Neuroepigenetics

BIOLOGY 222 or 225, and BIOLOGY 305. (Prerequisites enforced at registration.) (3). (BS). May not be repeated for credit. Rackham credit requires additional work.

MCDB 459 / NEURO 459. Brain States and Behavior

BIOLOGY 222 or 225. (Prerequisites enforced at registration.) BIOLOGY 305. (3). (BS). May not be repeated for credit. Rackham credit requires additional work.

MCDB 462. Epigenetics

BIOLOGY 305; and one of MCDB 310 or BIOLCHEM 415 or CHEM 351. (Prerequisites enforced at registration.) (3). (BS). May not be repeated for credit.

MCDB 463 / NEURO 463. Sensory Circuits and Diseases

BIOLOGY 222 or BIOLOGY 225. (Prerequisites enforced at registration.) (3). (BS). May not be repeated for credit. Rackham credit requires additional work.

MCDB 464 / NEURO 464. Cellular Diversity

BIOLOGY 305 and one of: MCDB 310, BIOLCHEM 415, or CHEM 351. (Prerequisites enforced at registration.) BIOLOGY 205, 207, 222, 225, or 272. (3). (BS). May not be repeated for credit. Rackham credit requires additional work.

MCDB 465 / NEURO 465. Computation and Sensory Processing in the Neocortex

BIOLOGY 222 or 225. (Prerequisites enforced at registration.) One of: MCDB 310, BIOLCHEM 415, or CHEM 351. (3). (BS). May not be repeated for credit. Rackham credit requires additional work.

MCDB 472. Building a Synthetic Cell

BIOLOGY 305, and one of: MCDB 310, BIOLCHEM 415, or CHEM 351; or graduate student standing. (Prerequisites enforced at registration.) (3). (BS). May not be repeated for credit. Rackham credit requires additional work.

MCDB 489. Microbial Genes and Genomes

BIOLOGY 305; and one of: MCDB 310 or 311, or BIOLCHEM 415, or CHEM 351; or graduate standing. (Prerequisites enforced at registration.) (3). (BS). May not be repeated for credit.

MCDB 494 / EEB 494. Teaching College Science

Consent of department required. Science concentrators having completed a range of courses, such as BIOLOGY 171, 172 and 173; BIOLOGY 225, 281, 305 or EEB 390; CHEM 130, 210 or 211; PHYSICS 140 or 160; or EARTH 119. (2). (BS). May not be repeated for credit.

MCDB 499 / EEB 499. Responsible Conduct of Research and Scholarship in Biology

Prior or concurrent enrollment in MCDB or EEB 300. (1). (BS). May not be repeated for credit. Offered mandatory credit/no credit.

Courses In Undergraduate Program in Neuroscience (NEURO)

NEURO 230 / PSYCH 230. Introduction to Behavioral Neuroscience

(PSYCH 111 or 112 or 114) or (BIOLOGY 171 or 172 or 174 or 192 or 195). (Prerequisites enforced at registration.) Basic familiarity with biology and chemistry. (4). (NS). (BS). May not be repeated for credit. No credit granted to those who have completed or enrolled in PSYCH 220.

NEURO 240 / PSYCH 240. Introduction to Cognitive Psychology

PSYCH 111 or 112 or 114. (Prerequisites enforced at registration.) (4). (NS). (BS). May not be repeated for credit.

NEURO 302 / PSYCH 302. Research Methods in Cognitive Neuroscience

One of STATS 206 OR STATS 250 OR STATS 280 OR STATS 425 OR MATH 425; and one of the following: PSYCH 220, 230, 235 or 240. (Prerequisites enforced at registration.) (3). (BS). May be repeated for a maximum of 6 credits.

NEURO 322 / MCDB 322. Principles of Cellular and Molecular Neuroscience

BIOLOGY 225 or PSYCH 230. (Prerequisites enforced at registration.) (4). (NS). (BS). May not be repeated for credit. MCDB 351.

NEURO 330 / PSYCH 330. Topics in Biopsychology

PSYCH 230. (Prerequisites enforced at registration.) (3). (NS). (BS). May be elected twice for credit. May be elected more than once in the same term.

NEURO 333 / PSYCH 333. Affective Neuroscience

PSYCH 230. (Prerequisites enforced at registration.) (3). (NS). (BS). May not be repeated for credit.

NEURO 334 / PSYCH 334. Neuroscience of Learning and Memory

PSYCH 230 or BIOLOGY 225. (Prerequisites enforced at registration.) (3). (NS). (BS). May not be repeated for credit.

NEURO 336 / PSYCH 336. Drugs of Abuse, Brain and Behavior

PSYCH 230 or BIOLOGY 225. (Prerequisites enforced at registration.) (BIOLOGY 162 or 163 or 172 or 195) and a CHEM course. (3). (NS). (BS). May not be repeated for credit.

NEURO 337 / PSYCH 337. Hormones and Behavior

One of the following: PSYCH 230, 235, or 335. (Prerequisites enforced at registration.) (3). (NS). (BS). May not be repeated for credit.

NEURO 339 / PSYCH 339. Biopsychology of Cooperation

One of the following: Psych 230, 235, or 335. (Prerequisites enforced at registration.) (3). (NS). (BS). May not be repeated for credit.

NEURO 340 / PSYCH 340. Topics in Cognition and Cognitive Neuroscience

PSYCH 240. (Prerequisites enforced at registration.) (3). (NS). (BS). May be elected twice for credit. May be elected more than once in the same term.

NEURO 345 / PSYCH 345. Introduction to Human Neuropsychology

One of the following: PSYCH 111, 112, or 114. (Prerequisites enforced at registration.) (4). (NS). (BS). May not be repeated for credit. No credit granted to those who have completed or are enrolled in PSYCH 634.

NEURO 360. Undergraduate Neurobiology Research

PSYCH 230 or MCDB 322 or BIOLOGY 225. (Prerequisites enforced at registration.) (2 - 3). (NS). (BS). (INDEPENDENT). May be repeated for a maximum of 9 credits.

NEURO 421 / MCDB 421. Topics in Cellular and Molecular Neurobiology

BIOLOGY 225, BIOLOGY 305, and PSYCH 230 or NEUROSCI 601. (3). (BS). May be elected twice for credit. May be elected more than once in the same term. Rackham credit requires additional work.

NEURO 422 / MCDB 422. Brain Development, Plasticity, and Circuits

MCDB 310 or 311, or BIOLCHEM 415, or CHEM 351; or graduate standing. (Prerequisites enforced at registration.) (3). (BS). May not be repeated for credit.

NEURO 423 / MCDB 423. Introduction to Research in Cellular and Molecular Neurobiology

BIOLOGY 173. (Prerequisites enforced at registration.) BIOLOGY 225 or BIOLOGY 222 or MCDB 322; or concurrent enrollment in MCDB 422. (3). (BS). May not be repeated for credit.

NEURO 424 / MCDB 424. Behavioral Neurobiology Laboratory

(BIOLOGY 222 or MCDB 322 or BIOLOGY 225 or PSYCH 230) and BIOLOGY 173. (Prerequisites enforced at registration.) BIOLOGY 305. (2). (BS). May not be repeated for credit. Rackham credit requires additional work.

NEURO 426 / MCDB 426. Molecular Endocrinology

BIOLOGY 225; and one of: MCDB 310 or 311, or BIOLCHEM 415, or CHEM 351; or Graduate standing. (Prerequisites enforced at registration.) (3). (BS). May not be repeated for credit.

NEURO 430 / PSYCH 430. Advanced Topics in Biopsychology

One of the following: Psych 230, 235, or 335. (Prerequisites enforced at registration.) (3). (BS). May be elected twice for credit. May be elected more than once in the same term. Rackham credit requires additional work.

NEURO 431 / PSYCH 431. Advanced Topics in Behavioral Neuroscience

PSYCH 230. (Prerequisites enforced at registration.) (3). (BS). May be elected twice for credit. May be elected more than once in the same term. Rackham credit requires additional work.

NEURO 432 / COGSCI 432 / LING 432 / PSYCH 444. Introduction to Neurolinguistics

LING 209, LING 210, COGSCI 200, or PSYCH 240. (3). (BS). May not be repeated for credit.

NEURO 433 / PSYCH 433. Advanced Topics in Neuroscience

PSYCH 230 or BIOLOGY 225. (Prerequisites enforced at registration.) (3). (BS). May be elected twice for credit. May be elected more than once in the same term. Rackham credit requires additional work.

NEURO 436 / PSYCH 436. Sleep: Brain and Behavior, From Flies to Humans

One of the following: PSYCH 230, 235, or 335. (Prerequisites enforced at registration.) (3). (BS). May not be repeated for credit.

NEURO 439 / PSYCH 439. The Developing Brain

PSYCH 230. (Prerequisites enforced at registration.) (3). (BS). May not be repeated for credit.

NEURO 440 / PSYCH 440. Advanced Topics in Cognitive Neuroscience

PSYCH 240. (Prerequisites enforced at registration.) (3). (BS). May be elected twice for credit. May be elected more than once in the same term.

NEURO 441 / MCDB 441. Cell Biology and Disease

MCDB 310 or MCDB 311 or BIOLCHEM 415 or CHEM 351. (Prerequisites enforced at registration.) (3). (BS). May not be repeated for credit. Rackham credit requires additional work.

NEURO 442 / PSYCH 442. The Neuroscience of Perception

PSYCH 220 or 230 or 240 or 345. (Prerequisites enforced at registration.) (3). (BS). May not be repeated for credit.

NEURO 451 / MCDB 451. Molecular Neurobiology of Health and Disease

BIOLOGY 222 or 225, or MCDB 322; and one of: BIOLOGY 305 or Biochemistry (MCDB 310, BIOLCHEM 415, or CHEM 351). (Prerequisites enforced at registration.) Biochemistry experience is recommended. (3). (BS). May not be repeated for credit. Rackham credit requires additional work.

NEURO 452 / MCDB 452. The Visual System

MCDB 322 or BIOLOGY 222 or [225 and (MCDB 310 or BIOLCHEM 415 or CHEM 351)] or NEUROSCI 614 or Graduate Standing. (Prerequisites enforced at registration.) (3). (BS). May not be repeated for credit. Rackham credit requires additional work.

NEURO 453 / MCDB 453. Ion Channels and their Channelopathies

[Biology 222 OR MCDB 322 OR permission of the instructor]. (Prerequisites enforced at registration.) (3). (BS). May not be repeated for credit. Rackham credit requires additional work.

NEURO 454 / PSYCH 454. Developmental Cognitive Neuroscience

PSYCH 250. (Prerequisites enforced at registration.) (3). (BS). May not be repeated for credit.

NEURO 458 / MCDB 458. Neuroepigenetics

BIOLOGY 222 or 225, and BIOLOGY 305. (Prerequisites enforced at registration.) (3). (BS). May not be repeated for credit. Rackham credit requires additional work.

NEURO 459 / MCDB 459. Brain States and Behavior

BIOLOGY 222 or 225. (Prerequisites enforced at registration.) BIOLOGY 305. (3). (BS). May not be repeated for credit. Rackham credit requires additional work.

NEURO 460. Advanced Undergraduate Neurobiology Research

MCDB 300 or NEURO 360 or PSYCH 326 or PSYCH 331. (Prerequisites enforced at registration.) (2 - 3). (BS). (INDEPENDENT). May be

repeated for a maximum of 9 credits.

NEURO 461. Neuroscience Senior Thesis

Consent of instructor required. (1). (BS). (INDEPENDENT). May not be repeated for credit.

NEURO 463 / MCDB 463. Sensory Circuits and Diseases

BIOLOGY 222 or BIOLOGY 225. (Prerequisites enforced at registration.) (3). (BS). May not be repeated for credit. Rackham credit requires additional work.

NEURO 464 / MCDB 464. Cellular Diversity

BIOLOGY 305 and one of: MCDB 310, BIOLCHEM 415, or CHEM 351. (Prerequisites enforced at registration.) BIOLOGY 205, 207, 222, 225, or 272. (3). (BS). May not be repeated for credit. Rackham credit requires additional work.

NEURO 465 / MCDB 465. Computation and Sensory Processing in the Neocortex

BIOLOGY 222 or 225. (Prerequisites enforced at registration.) One of: MCDB 310, BIOLCHEM 415, or CHEM 351. (3). (BS). May not be repeated for credit. Rackham credit requires additional work.

NEURO 470 / NEUROSCI 470. Human Neuroanatomy

Senior standing. (BS). May not be repeated for credit.

NEURO 475 / NEUROL 475. Neurobiology of Parkinson Disease

BIOLOGY 225 and PSYCH 230 and (MCDB 310 or BIOLCHEM 451 or CHEM 351); (C or better). (Prerequisites enforced at registration.) May not be repeated for credit.

NEURO 525 / NEUROSCI 525. Introduction to Pain, Neuroscience

Senior or Graduate Standing. (Prerequisites enforced at registration.) Upper level undergraduate students (with permission); graduate students in NEUROSCI, PUBHLTH, PSYCH and/or BIOLOGY; professional students from NURS, PHARMACY, DENT and MED. (BS). May not be repeated for credit.

NEURO 532 / ANATOMY 541 / PHYSIOL 541 / PSYCH 532. Mammalian Reproductive Physiology

MCDB 310 or BIOLCHEM 415 or CHEM 351; (C or better). (Prerequisites enforced at registration.) PHYSIOL 201 or PHYSIOL 502 or BIOL 225. (BS). May not be repeated for credit.

LSA Organizational Studies

Courses In Organizational Studies (ORGSTUDY)

ORGSTUDY 195. Special Topics in Organizational Studies

(3 - 4). (SS). May be elected twice for credit.

ORGSTUDY 201. Leadership and Collaboration

(4). (SS). May not be repeated for credit.

ORGSTUDY 204 / SOC 214. Nonprofits

(3). May not be repeated for credit. No credit granted to those who have completed or are enrolled in ORGSTUDY 420.

ORGSTUDY 205. Psychology of Inequality: Causes of Inequality and Potential Solutions

One of: PSYCH 111 or 112 or 114 or 115 or 116. (3). (SS). May not be repeated for credit. No credit granted to those who have completed or are enrolled in PSYCH 297 - Promoting Equity and Inclusion in the University and the Workplace.

ORGSTUDY 208 / ENVIRON 208. Business and Sustainability

(3). (SS). May not be repeated for credit.

ORGSTUDY 295. Social Science Topics in Organizational Studies

(3 - 4). (SS). May be elected three times for credit. May be elected more than once in the same term.

ORGSTUDY 299. Undergraduate Internship

Consent of department required. Declared Organizational Studies concentrators. (1). (EXPERIENTIAL). May be repeated for a maximum of 2 credits. May not be used to satisfy requirements for the organizational studies concentration. Internship credit may not be used to satisfy electives for the concentration. Offered mandatory credit/no credit.

ORGSTUDY 305. Inside Organizations

Introductory Psychology (PSYCH 111, 112, 114, or 115), introductory sociology (SOC 100, 101, 102, or 195), and ECON 101. (3). May not be repeated for credit.

ORGSTUDY 310. Formal Organizations and Environments

Introductory Psychology (PSYCH 111, 112, 114, or 115), introductory sociology (SOC 100, 101, 102, or 195), and ECON 101. (3). May not be repeated for credit.

ORGSTUDY 391 / ENVIRON 391 / RCIDIV 391. Sustainability and the Campus

An introductory course in Environment, Earth, or related field (e.g., ENVIRON 110, 111, 201, 270). (4). (ID). May not be repeated for credit.

ORGSTUDY 395. Current Issues in Organizational Studies

Introductory psychology and sociology, and ECON 101. (1 - 2). May be elected three times for credit. May be elected more than once in the same term.

ORGSTUDY 405. Negotiation and Dispute Resolution

Consent of department required. (3). May not be repeated for credit. No credit granted to those who have completed or are enrolled in Psych 388.

ORGSTUDY 410. Advanced Research Methods in Organizational Studies

One of the following (may be taken concurrently with ORGSTUDY 410): STATS 250 or 280 or SOC 210 or ECON 251. Restricted to Organizational Studies seniors. (Prerequisites enforced at registration.) (4). May not be repeated for credit.

ORGSTUDY 418 / ENVIRON 418. Leadership and Environmental Stewardship in Organizations

(3). May not be repeated for credit.

ORGSTUDY 419 / ENVIRON 419. Business, Sustainability, and Justice

(3). May not be repeated for credit.

ORGSTUDY 420. Nonprofit Organizations

Consent of department required. (3). May not be repeated for credit. No credit granted to those who have completed or are enrolled in

ORGSTUDY 204: Nonprofits.

ORGSTUDY 425. Psychology of Inequality: Causes of Inequality and Potential Solutions

(3). May not be repeated for credit. No credit granted for OS students who have completed or are enrolled in ORGSTUDY 205 or PSYCH 487 (Topic #30: Psychology of Inequality & Prejudice).

ORGSTUDY 435. Managing People and Strategic Change in Organizations

(3). May not be repeated for credit.

ORGSTUDY 440. Organizations in the Developing World

(3). May not be repeated for credit.

ORGSTUDY 445 / SOC 418. Organizational Culture

No credit granted to those who have completed or are enrolled in ORGSTUDY 495 with topic #29, "Organizational Culture". (Prerequisites enforced at registration.) (3). May not be repeated for credit.

ORGSTUDY 450. Technological Innovation

(3). May not be repeated for credit. No credit granted to those who have completed ORGSTUDY 206.

ORGSTUDY 455. Organizational Wrongdoing

Consent of department required. (3). May not be repeated for credit.

ORGSTUDY 460. Racial Disparities in Policing: Causes, Consequences, and Correctives

(3). (R&E). May not be repeated for credit.

ORGSTUDY 490. Advanced Research Team

Consent of instructor required. STATS course recommended. (1 - 4). (EXPERIENTIAL). May be elected three times for credit. May be elected more than once in the same term.

ORGSTUDY 495. Special Topics in Organizational Studies

(3). May be elected six times for credit. May be elected more than once in the same term.

ORGSTUDY 497. Senior Honors Research I

Consent of department required. Must be accepted into the OS Honors program by review of proposal. (3 - 4). (INDEPENDENT). May not be repeated for credit. F.

ORGSTUDY 498. Senior Honors Research II

Consent of department required. Must be accepted into the OS Honors program by review of proposal. (3 - 4). (INDEPENDENT). May not be repeated for credit. W.

ORGSTUDY 499. Independent Study

Consent of instructor required. (1 - 4). (INDEPENDENT). May be repeated for a maximum of 8 credits. No more than six credits of independent study credit may count toward an Organizational Studies concentration. F, W.

LSA Philosophy

Courses In Philosophy (PHIL)

PHIL 101. Introduction to Philosophy

(4; 2 in the half-term). (HU). May not be repeated for credit. No credit granted to those who have completed or are enrolled in PHIL 181, 182, 202, 231, 232, or 297.

PHIL 110. Introduction to Ethics

(4; 2 in the half-term). (HU). May not be repeated for credit. No credit granted to those who have completed or are enrolled in PHIL 160.

PHIL 151. Philosophical Dimensions of Personal Decisions

(3; 2 in the half-term). (HU). May not be repeated for credit. Students are strongly advised not to take more than two Philosophy Introductions.

PHIL 152. Philosophy of Human Nature

(3; 2 in the half-term). (HU). May not be repeated for credit. Students are strongly advised not to take more than two Philosophy Introductions.

PHIL 153. Philosophy and the Arts

(3; 2 in the half-term). (HU). May not be repeated for credit. Students are strongly advised not to take more than two Philosophy Introductions.

PHIL 154. Science Fiction and Philosophy

(3; 2 in the half-term). (HU). May not be repeated for credit.

PHIL 183. Critical Reasoning

(3; 2 in the half-term). (HU). May not be repeated for credit.

PHIL 196. First Year Seminar

Enrollment restricted to first-year students, including those with sophomore standing. (3). (HU). May not be repeated for credit.

PHIL 215. Practicing Ethics

(4; 2 in the half-term). (HU). May not be repeated for credit.

PHIL 230 / ASIAN 230 / RELIGION 230. Introduction to Buddhism

(4). (HU). May not be repeated for credit.

PHIL 250. Changing the World

(4; 3 in the half-term). (HU). May not be repeated for credit.

PHIL 262 / RELIGION 262. Introduction to the Philosophy of Religion

(4; 3 in the half-term). (HU). May not be repeated for credit.

PHIL 263 / ASIAN 263. Introduction to Chinese Philosophy

(4). (HU). May not be repeated for credit.

PHIL 288 / CLCIV 288. Ancient Greek and Roman Philosophy

(4; 3 in the half-term). (HU). May not be repeated for credit.

PHIL 289. Descartes to Kant

(4; 3 in the half-term). (HU). May not be repeated for credit.

PHIL 296. Honors Introduction to Logic

Honors students or permission of instructor. (3; 2 in the half-term). (MSA). (BS). (QR/1). May not be repeated for credit. No credit granted to

those who have completed or are enrolled in PHIL 303 or 414.

PHIL 297. Honors Introduction to Philosophy

Honors students or permission of instructor. (3; 2 in the half-term). (HU). May not be repeated for credit. No credit granted to those who have completed or are enrolled in PHIL 101 (234), 181, 182, 202, 231, or 232.

PHIL 298. Topics in Philosophy

(3; 2 in the half-term). (HU). May not be repeated for credit.

PHIL 302 / COGSCI 302. Topics in Moral Psychology

COGSCI 200 or permission of instructor. (Prerequisites enforced at registration.) (3). May not be repeated for credit.

PHIL 303. Introduction to Symbolic Logic

(4; 3 - 4 in the half-term). (MSA). (BS). (QR/1). May not be repeated for credit. No credit granted to those who have completed or are enrolled in PHIL 296 or 414. F, W, Sp.

PHIL 305. Introduction to Formal Philosophical Methods

(4; 3 in the half-term). (MSA). (BS). (QR/1). May not be repeated for credit.

PHIL 310 / COMPLIT 310. Topics in Literature and Philosophy

Student may not elect the same course topic twice including COMPLIT/PHIL 310 or 311. (Prerequisites enforced at registration.) (3 - 4). (HU). (R&E). May be elected twice for credit. Student may not elect the same topic twice across PHIL 311/COMPLIT 311 or PHIL 310/COMPLIT 310 regardless of course subject and number.

PHIL 311 / COMPLIT 311. Topics in Philosophy and Literature

Student may not elect the same course topic twice including PHIL/COMPLIT 310 or 311. (Prerequisites enforced at registration.) (3 - 4). (HU). (R&E). May be elected twice for credit. Student may not elect the same topic twice across PHIL 311/COMPLIT 311 or PHIL 310/COMPLIT 310 regardless of course subject and number.

PHIL 320 / STS 320. The World-View of Modern Science

(4; 3 in the half-term). (HU). May not be repeated for credit.

PHIL 323. The Scientific Revolution

(3). (HU). May not be repeated for credit.

PHIL 340. Minds and Machines

(4; 2 in the half-term). (HU). May not be repeated for credit.

PHIL 343. Introduction to Rational Choice Theory

(3 - 4; 3 in the half-term). May not be repeated for credit. No credit granted to those who have completed or are enrolled in PHIL 443.

PHIL 345. Language and Mind

One philosophy course with at least a C-. (Prerequisites enforced at registration.) (4; 3 in the half-term). (HU). May not be repeated for credit.

PHIL 348 / CLCIV 348. Greek Science

(3). (HU). May not be repeated for credit.

PHIL 349 / ASIAN 349. Confucianism: Reinventions of Tradition

ASIAN 220 or ASIAN 263/PHIL 263. (3). (HU). May not be repeated for credit.

PHIL 355. Contemporary Moral Problems

(4; 3 in the half-term). (HU). (R&E). May not be repeated for credit. No credit granted to those who have completed or are enrolled in PHIL 455.

PHIL 356. Issues in Bioethics

No prerequisites; one philosophy introduction is recommended. (4; 3 in the half-term). (HU). May not be repeated for credit.

PHIL 359. Law and Philosophy

(4; 2 in the half-term). (HU). (R&E). May not be repeated for credit.

PHIL 361. Ethics

One philosophy course with at least a C-. (Prerequisites enforced at registration.) (4; 3 in the half-term). (HU). May not be repeated for credit. F.

PHIL 366. Introduction to Political Philosophy

One Philosophy course or PPE 300; with at least C-. (Prerequisites enforced at registration.) (4; 2 in the half-term). (HU). May not be repeated for credit.

PHIL 367. 19th Century Social and Political Philosophy

One philosophy course, PPE 300, or POLSCI 101 with at least a C-. (Prerequisites enforced at registration.) (4; 3 in the half-term). (HU). May not be repeated for credit.

PHIL 371. Phenomenology and Existential Philosophy

One philosophy course (completed with a minimum grade of C- or better). (Prerequisites enforced at registration.) (3; 2 in the half-term). (HU). May not be repeated for credit.

PHIL 375. Nietzsche's Philosophical Thought

(3; 2 in the half-term). (HU). May not be repeated for credit.

PHIL 376 / ENVIRON 376. Environmental Ethics-Living Well with Nature

(3). (HU). May not be repeated for credit.

PHIL 381 / STS 381. Science and Objectivity

One Philosophy course completed with a minimum grade of C- or better. (Prerequisites enforced at registration.) (4; 3 in the half-term). (HU). May not be repeated for credit.

PHIL 383. Knowledge and Reality

One Philosophy course (completed with a minimum grade of C- or better). (Prerequisites enforced at registration.) (4; 3 in the half-term). (HU). May not be repeated for credit.

PHIL 384. Applied Epistemology: Race, Ethnicity and Knowledge

(4; 3 in the half-term). (HU). (R&E). May not be repeated for credit.

PHIL 387. Early Modern Feminist Philosophers

(3; 2 in the half-term). (HU). May not be repeated for credit.

PHIL 391 / CLCIV 367. Plato

At least one prior course taken under PHIL. (Prerequisites enforced at registration.) (3; 2 in the half-term). (HU). May not be repeated for credit.

PHIL 397. Topics in Philosophy

Consent of department required. Permission of concentration advisor and instructor. (1 - 4; 2 in the half-term). May be elected twice for credit.

PHIL 399. Independent Study

Consent of instructor required. One philosophy introduction and permission of instructor. (1 - 4). (INDEPENDENT). May be elected twice for credit. F, W, Sp.

PHIL 401. Undergraduate Honors Seminar

Open to Honors concentrators in Philosophy and others by permission of instructor. (3; 2 in the half-term). May not be repeated for credit.

Continuing Course. Y grade can be reported at end of the first-term to indicate work in progress. At the end of the second term, the final grade is posted for both term's elections. F.

PHIL 406. Aristotle

One Philosophy course (completed with a minimum grade of C- or better); OR graduate standing. (Prerequisites enforced at registration.) (3; 2 in the half-term). May not be repeated for credit.

PHIL 409. Philosophy of Language

PHIL 296, 303, or 414. (3; 2 in the half-term). May not be repeated for credit.

PHIL 413. Formal Philosophical Methods

One of the following: ECON 251, ECON 309, MATH 116, MATH 121, PHIL 303, STATS 280, or STATS 412. (Prerequisites enforced at registration.) (3; 2 in the half-term). (BS). May not be repeated for credit.

PHIL 414. Mathematical Logic

One PHIL or MATH course. (3; 2 in the half-term). (BS). (QR/1). May not be repeated for credit. F.

PHIL 416. Modal Logic

PHIL 414 or permission of instructor. (3; 2 in the half-term). (BS). May not be repeated for credit.

PHIL 417. Logic, Computation, and Learning

PHIL 296, PHIL 303, EECS 203, EECS 492, MATH 481 or permission of the instructor. (Prerequisites enforced at registration.) (3). May not be repeated for credit.

PHIL 420. Philosophy of Science

One course in Philosophy or Science at the 300 level or higher with a grade of C- or better; or graduate standing. (3). (BS). May not be repeated for credit. W.

PHIL 424. Philosophy of Quantum Mechanics

One course in Philosophy and one in Mathematics or Physics. (3; 2 in the half-term). (BS). May not be repeated for credit.

PHIL 425. Philosophy of Biology

One course in Philosophy or Biology. (3). (BS). May not be repeated for credit.

PHIL 429. Ethical Analysis

PHIL 361, 366, 367 or PPE 300, (completed with a minimum grade of C- or better); OR Graduate standing. (Prerequisites enforced at registration.) (3; 2 in the half-term). May not be repeated for credit.

PHIL 440. Philosophy of Film

One of the following: a philosophy course at the 300-level or above, one course in History of Art, one course in Screen Arts and Cultures, or permission of instructor. (3; 2 in the half-term). May not be repeated for credit.

PHIL 441. Social Philosophy

PHIL 361, 366, 367 OR PPE 300 (completed with a minimum grade of C- or better), OR Graduate standing. (Prerequisites enforced at registration.) (3; 2 in the half-term). May not be repeated for credit.

PHIL 442. Topics in Political Philosophy

PHIL 361, 366, 367, or PPE 300 (completed with a minimum grade of C- or better); OR Graduate standing. (Prerequisites enforced at registration.) (3; 2 in the half-term). May not be repeated for credit.

PHIL 443. Foundations of Rational Choice Theory

Two courses in Philosophy, Economics, or Psychology (or some combination thereof) and satisfaction of the Quantitative Reasoning requirement; or permission of instructor. (4; 3 in the half-term). May not be repeated for credit.

PHIL 444. Groups and Choices

(3). May not be repeated for credit. Rackham credit requires additional work.

PHIL 446. Social and Political Philosophy of Language

One philosophy course, graduate standing, or permission of the instructor. (Prerequisites enforced at registration.) (4; 3 in the half-term). May not be repeated for credit.

PHIL 450. Philosophy of Cognition

Two courses in Philosophy. (3). May not be repeated for credit.

PHIL 458. Philosophy of Kant

PHIL 289 or 389 (completed with a minimum grade of C- or better); OR Graduate standing. (Prerequisites enforced at registration.) (3; 2 in the half-term). May not be repeated for credit.

PHIL 460. Medieval Philosophy

One philosophy introduction. (3; 2 in the half-term). May not be repeated for credit.

PHIL 463. Topics in the History of Philosophy

One Philosophy course (completed with a minimum grade of C- or better). (Prerequisites enforced at registration.) PHIL 388 or 389, or permission of instructor. (3). May not be repeated for credit.

PHIL 467. The Enlightenment and Skepticism

One Philosophy course or graduate standing. (Prerequisites enforced at registration.) (3). May not be repeated for credit.

PHIL 475. Topics in 20th Century Philosophy

One introductory Philosophy course and one 300-level Philosophy course or permission of the instructor. Consent of instructor required. (Prerequisites enforced at registration.) (3; 2 - 3 in the half-term). May not be repeated for credit.

PHIL 480. Philosophy of Religion

One previous course taken under PHIL. (Prerequisites enforced at registration.) (3; 2 in the half-term). May not be repeated for credit.

PHIL 481. Metaphysics

PHIL 345, 381, or 383. (3; 2 in the half-term). May not be repeated for credit.

PHIL 482. Philosophy of Mind

PHIL 345, 381, or 383. (3; 2 in the half-term). May not be repeated for credit.

PHIL 486 / WGS 486. Feminist Philosophy

Two courses in either Philosophy or Women's & Gender Studies or permission of instructor. (3). May not be repeated for credit.

PHIL 498. Senior Honors in Philosophy

Consent of instructor required. Permission of department. (3; 2 in the half-term). (INDEPENDENT). May not be repeated for credit. Continuing Course. Y grade can be reported at end of the first-term to indicate work in progress. At the end of the second term of PHIL 499, the final grade is posted for both term's elections. W, Su.

PHIL 499. Senior Honors in Philosophy

Consent of instructor required. Permission of department. (3; 2 in the half-term). (INDEPENDENT). May not be repeated for credit.

Courses In Philosophy, Politics, and Economics (PPE)

PPE 300. Introduction to Political Economy

Two introductory courses chosen from at least two disciplines: Philosophy, Political Science, and Economics. (4; 2 in the half-term). (ID). May not be repeated for credit.

PPE 400. Seminar in Political Economy

PPE 300 with at least a C-. (Prerequisites enforced at registration.) Completion of distribution requirements for PPE concentration. (3; 2 in the half-term). May not be repeated for credit.

LSA Physics

Courses In Physics (PHYSICS)

PHYSICS 102. Mini Course in the Natural Sciences

(1 - 2). (NS). (BS). May be elected twice for credit. May be elected more than once in the same term.

PHYSICS 104. Python Programming for Introductory Science Courses

(2). (BS). May not be repeated for credit.

PHYSICS 106. Everyday Physics

(3). (NS). (BS). May not be repeated for credit.

PHYSICS 115. Principles of Physics

(2). May not be repeated for credit. No credit granted to those who have completed or are concurrently enrolled in PHYSICS 120, 135, 140, 150, 160, 235, 240, 250, or 260.

PHYSICS 116. From Quarks to Cosmos

(3). (NS). (BS). (QR/1). May not be repeated for credit.

PHYSICS 119 / CHEM 108 / EARTH 130. The Physical World

High-school algebra. (4). (NS). (BS). (QR/2). May not be repeated for credit.

PHYSICS 121. Physics of Architecture and Design

High school algebra and trigonometry. (5). (NS). (BS). (QR/1). May not be repeated for credit.

PHYSICS 140. General Physics I

MATH 115, 120, 185 or 295. (4). (NS). (BS). (QR/1). May not be repeated for credit. No credit granted to those who have completed or are enrolled in PHYSICS 135, 160, or BIOPHYS/PHYSICS 150.

PHYSICS 141. Elementary Laboratory I

(1). (NS). (BS). May not be repeated for credit. No credit granted to those who have completed or are enrolled in PHYSICS 136, 161, or BIOPHYS/PHYSICS 151.

PHYSICS 150 / BIOPHYS 150. Fundamental Physics for the Life Sciences I

MATH 115, 120, 185, or 295; knowledge of differential and integral calculus minimally at the level of MATH 115, or its high school equivalent, will be needed. Students should elect PHYSICS 151 concurrently. (4). (NS). (BS). (QR/1). May not be repeated for credit. No credit granted to those who have completed or are enrolled in PHYSICS 135, 140, or 160.

PHYSICS 151 / BIOPHYS 151. Physics for the Life Sciences Laboratory I

Concurrent election with BIOPHYS/PHYSICS 150 is strongly recommended. (1). (NS). (BS). May not be repeated for credit. No credit granted to those who have completed or are enrolled in PHYSICS 136, 141, or 161.

PHYSICS 160. Honors Physics I

MATH 115, 120, 185 or 295. Students should elect PHYSICS 161 or 141 concurrently. (4). (NS). (BS). (QR/1). May not be repeated for credit. No credit granted to those who have completed or are enrolled in PHYSICS 135, 140, or BIOPHYS/PHYSICS 150.

PHYSICS 161. Honors Introductory Mechanics Lab

Concurrent election with PHYSICS 160 strongly recommended. (1). (NS). (BS). May not be repeated for credit. No credit granted to those who have completed or are enrolled in PHYSICS 136, 141, or BIOPHYS/PHYSICS 151.

PHYSICS 169. The Physical Universe: An Introduction to Modern Physics, Astrophysics, and Cosmology

High school mathematics. (3). (NS). (BS). (QR/1). May not be repeated for credit. No credit granted for students who are enrolled in or have completed PHYSICS 112.

PHYSICS 180. Topics in Physics

(1 - 4). (NS). (BS). May be elected twice for credit. May be elected more than once in the same term.

PHYSICS 210 / ENVIRON 210. Sustainable Energy Futures

(3). (NS). (BS). May not be repeated for credit.

PHYSICS 240. General Physics II

PHYSICS 140 or 160; and MATH 116, 121, 156, 186, or 296. Students should elect PHYSICS 241 concurrently. (4). (NS). (BS). (QR/1). May not be repeated for credit. No credit granted to those who have completed or are enrolled in PHYSICS 235, 260, or BIOPHYS/PHYSICS 250.

PHYSICS 241. Elementary Laboratory II

Concurrent election with PHYSICS 240 or 260 is strongly recommended. (1). (NS). (BS). May not be repeated for credit. No credit granted to

those who have completed or are enrolled in PHYSICS 236, 261, or BIOPHYS/PHYSICS 251.

PHYSICS 250 / BIOPHYS 250. Fundamental Physics for the Life Sciences II

PHYSICS 135 or BIOPHYS/PHYSICS 150. MATH 115, 120, 185, or 295; knowledge of differential and integral calculus minimally at the level of MATH 115, or its high school equivalent, will be needed. Students should elect BIOPHYS/PHYSICS 251 concurrently. (4). (NS). (BS). (QR/1). May not be repeated for credit. No credit granted to those who have completed or are enrolled in PHYSICS 235, 240, or 260.

PHYSICS 251 / BIOPHYS 251. Physics for the Life Sciences Laboratory II

Concurrent election with BIOPHYS/PHYSICS 250 is strongly recommended. (1). (NS). (BS). May not be repeated for credit. No credit granted to those who have completed or are enrolled in PHYSICS 236, 241, or 261.

PHYSICS 260. Honors Physics II

PHYSICS 140 or 160; and MATH 116, 121, 156, 186 or 296. Students should elect PHYSICS 261 or 241 concurrently. (4). (NS). (BS). (QR/1). May not be repeated for credit. No credit granted to those who have completed or are enrolled in PHYSICS 235, 240, or BIOPHYS/PHYSICS 250.

PHYSICS 261. Honors Electricity and Magnetism Lab

Concurrent election with PHYSICS 260 strongly recommended. (1). (NS). (BS). May not be repeated for credit. No credit granted to those who have completed or are enrolled in PHYSICS 236, 241, or BIOPHYS/PHYSICS 251.

PHYSICS 288. Physics of Music

(3). (NS). (BS). (QR/1). May not be repeated for credit. No credit granted to those who have completed or are enrolled in PHYSICS 489. No previous expertise in either physics or music is required.

PHYSICS 290 / BIOPHYS 290. Physics of the Body and Mind

Students should have knowledge of basic calculus and physics as covered in courses such as: PHYSICS 125 or 135 or 140 or 150 or 160 or BIOPHYS 150. (3). (NS). (BS). (QR/2). May not be repeated for credit.

PHYSICS 340. Waves, Heat, and Light

One of: PHYSICS 235 or 240 or 260 or BIOPHYS/PHYSICS 250. (Prerequisites enforced at registration.) One of: MATH 215, 255, 285, or 295. (3). (BS). May not be repeated for credit.

PHYSICS 351. Methods of Theoretical Physics I

One of: Math 215, 255, 285, or 295; and one of: MATH 256 or 316. (3). (BS). May not be repeated for credit.

PHYSICS 360. Honors Physics III

One of: PHYSICS 235, 240, 260, or BIOPHYS/PHYSICS 250. (Prerequisites enforced at registration.) One of: MATH 215, 255, 285 or 295. (3). (BS). May not be repeated for credit. No credit granted to those who have completed or are enrolled in PHYSICS 340.

PHYSICS 370 / BIOPHYS 370 / CHEM 370. Physical and Chemical Principles Behind Biology and Medicine

Students should have knowledge of basic physical chemistry, multivariable or applied calculus and mid-level physics as covered in, for ex: MATH 215 or CHEM 262; CHEM 130 or 210 or PHYSICS 235, 239 or 240. (3). (NS). (BS). May not be repeated for credit. No credit granted to students who have completed or are enrolled in CHEM 260. F, W.

PHYSICS 380. Intermediate Topics in Physics

At least one 200-level course in Physics or Engineering. (1 - 4). (NS). (BS). May be elected three times for credit. May be elected more than once in the same term.

PHYSICS 390. Introduction to Modern Physics

PHYSICS 340 or 360 and one of the following: MATH 216, 286, or 316. (3). (BS). May not be repeated for credit.

PHYSICS 391. Introduction to Modern Physics Lab

PHYSICS 340 or PHYSICS 360 and PHYSICS 351; PHYSICS 390 should be elected prior to or in the same term as PHYSICS 391. (2). (NS). (BS). May not be repeated for credit.

PHYSICS 401. Intermediate Mechanics

PHYSICS 340 or 360 and 351 and one of MATH 216, 256, 286, or 316. (3). (BS). (QR/1). May not be repeated for credit.

PHYSICS 402. Optics

PHYSICS 340 or 360, and one of: MATH 216, 256, 286, 296 or 316: or graduate standing. (Prerequisites enforced at registration.) (3). (BS). May not be repeated for credit. A student can receive credit for only one of EECS 334 or PHYSICS 402.

PHYSICS 405. Intermediate Electricity and Magnetism

PHYSICS 340 or 360 and 351 and one of MATH 216, 256, 286, or 316. (3). (BS). May not be repeated for credit.

PHYSICS 406. Statistical and Thermal Physics

PHYSICS 340 or PHYSICS 360 and PHYSICS 351. (3). (BS). May not be repeated for credit.

PHYSICS 411. Introduction to Computational Physics

PHYSICS 401 and [MATH 216 or 256 or 286 or 296 or 316]. Some familiarity with a computer language. (3). (BS). May not be repeated for credit.

PHYSICS 413 / CMLXSYS 541. Introduction to Nonlinear Dynamics and the Physics of Complexity

PHYSICS 401 or Graduate Standing. (Prerequisites enforced at registration.) An intermediate mechanics course (such as PHYSICS 401) and/or a course in introductory differential equations. (3). (BS). May not be repeated for credit. F.

PHYSICS 415. Undergraduate Research

Consent of instructor required. (1 - 6). (INDEPENDENT). May be repeated for a maximum of 8 credits. May be elected more than once in the same term.

PHYSICS 417 / BIOPHYS 417 / CHEM 417. Dynamical Processes in Biophysics

Students should have knowledge of intermediate physical chemistry, intermediate/applied calculus (single and multivariable) and intermediate linear algebra (differential equations) as covered in, for ex: BIOPHYS 370 and MATH 216 or 256 or 286 or 316. (3). (BS). May not be repeated for credit.

PHYSICS 430 / BIOPHYS 430. Medical Physics

Students should have knowledge of physical chemistry as covered in courses such as: CHEM 230, CHEM 260 or BIOPHYS/CHEM/PHYSICS 370, or PHYSICS 390/391. (3). (BS). May not be repeated for credit.

PHYSICS 433 / BIOPHYS 433. Biocomplexity

Students should have knowledge of basic and applied calculus (single and multi-variable). Familiarity with basic linear algebra is helpful but not required. Knowledge covered in courses such as: BIOPHYS 417 or CHEM 417 or PHYSICS 417, or PHYSICS 406. (3). (BS). May not be repeated for credit. Rackham credit requires additional work.

PHYSICS 435. Gravitational Physics

PHYSICS 390 and 401; or graduate standing. (Prerequisites enforced at registration.) (3). (BS). May not be repeated for credit. F.

PHYSICS 438. Electromagnetic Radiation

PHYSICS 405. (Prerequisites enforced at registration.) (3). (BS). May not be repeated for credit.

PHYSICS 440. Instrumentation for the Physical Sciences

PHYSICS 240 or 260, or BIOPHYS/PHYSICS 250, or graduate standing. (Prerequisites enforced at registration.) (3). (BS). May not be repeated for credit.

PHYSICS 441. Advanced Laboratory I

PHYSICS 390 and any 400-level Physics course. (Prerequisites enforced at registration.) (3). (BS). May not be repeated for credit. F.

PHYSICS 442. Advanced Laboratory II

PHYSICS 441. (Prerequisites enforced at registration.) (3). (BS). May not be repeated for credit. W.

PHYSICS 445 / BIOPHYS 445 / CMLXSYS 445 / MATH 445. Entropy and Information: Concepts and Applications

MATH 215 (Multivariable and Vector Calculus). (Prerequisites enforced at registration.) MATH 425/STATS 425. (3). (BS). May not be repeated for credit.

PHYSICS 450 / BIOPHYS 450. Laboratory Techniques in Biophysics

Students should have knowledge of physical chemistry and biochemistry, as covered in the curricula of: CHEM 230 or CHEM 260 or BIOPHYS 370; CHEM 351, MCDB 310 or BIOLCHEM 415. (3). (BS). May not be repeated for credit. Rackham credit requires additional work.

PHYSICS 452. Methods of Theoretical Physics II

PHYSICS 351. (3). (BS). May not be repeated for credit.

PHYSICS 453. Quantum Mechanics

PHYSICS 390 or graduate standing. (Prerequisites enforced at registration.) PHYSICS 351 and PHYSICS 401 and PHYSICS 405. (3). (BS). May not be repeated for credit.

PHYSICS 457. Particle Physics and Cosmology

PHYSICS 453; or graduate standing. (Prerequisites enforced at registration.) (3). (BS). May not be repeated for credit. W.

PHYSICS 460. Quantum Mechanics II

PHYSICS 453; or graduate standing. (Prerequisites enforced at registration.) (3). (BS). May not be repeated for credit. W.

PHYSICS 463. Introduction to Solid State Physics

PHYSICS 453; or graduate standing. (Prerequisites enforced at registration.) (3). (BS). May not be repeated for credit. W.

PHYSICS 480. Advanced Topics in Physics

(1 - 4). (BS). May be elected three times for credit. May be elected more than once in the same term.

PHYSICS 495. Physics Research Capstone

Consent of department required. PHYSICS 415 or prior research experience. (3). (BS). (INDEPENDENT). May not be repeated for credit. No credit granted to those who have completed or are enrolled in PHYSICS 496 or 497.

PHYSICS 496. Senior Thesis, I

Consent of instructor required. Permission of departmental concentration advisor. (2 - 3). (BS). (INDEPENDENT). May not be repeated for credit. Continuing Course. Y grade can be reported at end of the first-term to indicate work in progress. At the end of the second term of PHYSICS 497, the final grade is posted for both term's elections. F, W, Sp/Su, Sp, Su.

PHYSICS 497. Senior Thesis II

Consent of instructor required. Permission of departmental concentration advisor. (2 - 3). (BS). (INDEPENDENT). May not be repeated for credit. F, W, Sp/Su, Sp, Su.

PHYSICS 498. Introduction to Research for Honors Students

Consent of instructor required. Permission of departmental concentration advisor. (2 - 3). (BS). (INDEPENDENT). May not be repeated for credit. Continuing Course. Y grade can be reported at end of the first-term to indicate work in progress. At the end of the second term of PHYSICS 499, the final grade is posted for both term's elections. F, W, Sp/Su, Sp, Su.

PHYSICS 499. Introduction to Research for Honors Students

Consent of instructor required. Permission of Physics concentration advisor. (2 - 3). (BS). (INDEPENDENT). May not be repeated for credit. F, W, Sp/Su, Sp, Su.

PHYSICS 508 / CMLXSYS 535. Theory of Social and Technological Networks

Calculus and linear algebra; some computer programming experience recommended. (3). (BS). May not be repeated for credit.

LSA Political Science**Courses In Political Science (POLSCI)****POLSCI 101. Introduction to Political Theory**

Primarily for first and second year students. (4). (SS). May not be repeated for credit. F, W, Sp.

POLSCI 111. Introduction to American Politics

Primarily for first and second year students. (4). (SS). May not be repeated for credit.

POLSCI 140. Introduction to Comparative Politics

Primarily for first- and second-year students. (4). (SS). May not be repeated for credit. F, W.

POLSCI 160. Introduction to World Politics

(4). (SS). May not be repeated for credit. F, W, Su.

POLSCI 190. First-Year Seminar in Political Science

Enrollment restricted to first-year students, including those with sophomore standing. (3). (SS). May not be repeated for credit.

POLSCI 299. Directed Undergraduate Internship in Political Science

Consent of department required. Declared political science concentrator. (1). (EXPERIENTIAL). May be elected twice for credit. Offered mandatory credit/no credit.

POLSCI 300. Quantitative Empirical Methods of Political Science

One Political Science course. (4). (SS). (BS). (QR/1). May not be repeated for credit.

POLSCI 301. Development of Political Thought: To Modern Period
POLSCI 101. (3). (HU). May not be repeated for credit.

POLSCI 302. Development of Political Thought: Modern and Recent
POLSCI 101. (3). (HU). May not be repeated for credit.

POLSCI 303. Religion and Politics
No credit for POLSCI 495 with the topic Religion and Politics. (Prerequisites enforced at registration.) Introductory level coursework in some subfield(s) of Political Science is recommended. (3). (SS). May not be repeated for credit.

POLSCI 304 / AMCULT 319 / WGS 326. Disability: A Democratic Dilemma
No credit for POLSCI 495 with the topic Disability: A Democratic Dilemma. (Prerequisites enforced at registration.) (3). (R&E). May not be repeated for credit.

POLSCI 306. American Political Thought: Early
POLSCI 101 or upperclass standing. (3 - 4; 3 in the half-term). (SS). May not be repeated for credit.

POLSCI 307. American Political Thought: Late
POLSCI 101 or 111. (3 - 4). (SS). May be elected twice for credit. May be elected more than once in the same term.

POLSCI 309 / ENVIRON 307. Theoretical Perspectives on Environmental Change
POLSCI 101. (3 - 4). (SS). May be elected twice for credit.

POLSCI 310. The Politics of Public Policy
POLSCI 111. (Prerequisites enforced at registration.) (4). May not be repeated for credit. No credit granted to those who have completed or are enrolled in PUBPOL 320.

POLSCI 311. American Political Processes
POLSCI 111 or upperclass standing. (3). (SS). May not be repeated for credit.

POLSCI 312. Persuasive Politics: Voters, Campaigns and Communication Strategies
(4). (SS). May not be repeated for credit.

POLSCI 314. Congress vs the Presidency: The Battle for Control
No credit for POLSCI 389 with the topic Congress and the Presidency or the topic Congress vs the Presidency: the Battle for Control. (Prerequisites enforced at registration.) (3). May not be repeated for credit.

POLSCI 315. Media and Public Opinion
POLSCI 111 or upperclass standing. (4; 3 in the half-term). (SS). May not be repeated for credit.

POLSCI 316 / HISTORY 235. History of Law and Social Justice
(3 - 4; 3 in the half-term). (SS). May not be repeated for credit.

POLSCI 317. Constitutional Law: Cases and Controversies
One course in Political Science. (3). May not be repeated for credit.

POLSCI 318. American Constitutional Politics
POLSCI 111. (3). May not be repeated for credit.

POLSCI 319 / HISTORY 411. The Politics of Civil Liberties and Civil Rights
POLSCI 111. (4). (R&E). May not be repeated for credit.

POLSCI 320. The American Presidency
POLSCI 111 or upperclass standing. (Prerequisites enforced at registration.) (4; 3 in the half-term). (SS). (QR/1). May not be repeated for credit.

POLSCI 322. US Legislative Process
POLSCI 111. (4). May not be repeated for credit.

POLSCI 324 / AAS 418. Black Americans and the Political System
One course in Political Science and AAS 201. (3). May not be repeated for credit.

POLSCI 325 / PUBPOL 201. Systematic Thinking About the Problems of the Day
One additional introductory social science course. (SS). May not be repeated for credit.

POLSCI 326. American State Government
POLSCI 111 or upperclass standing. (Prerequisites enforced at registration.) (3). (SS). May not be repeated for credit.

POLSCI 327. Election Law
POLSCI 111; no credit for POLSCI 389 with the topic Political Law and Election Law. (Prerequisites enforced at registration.) (3). May not be repeated for credit.

POLSCI 334 / ANTHRCUL 317 / HISTORY 228 / REEES 397 / SLAVIC 397 / SOC 317. Communism and Capitalism in Eastern Europe
(4). (SS). May not be repeated for credit. No credit granted to those who have completed or are enrolled in REEES 396 or SLAVIC 396 or POLSCI 396 or HISTORY 333 or SOC 393.

POLSCI 338. The Constitution Outside of the Courts
(3). May not be repeated for credit.

POLSCI 339 / ASIAN 428. China's Evolution Under Communism
Upperclass standing. (4; 3 in the half-term). May not be repeated for credit.

POLSCI 340. Governments and Politics in Western Europe
POLSCI 140 or upperclass standing. (4). (SS). May not be repeated for credit.

POLSCI 347. Politics and Society in Latin America
POLSCI 140 or upperclass standing. (3). (SS). May not be repeated for credit.

POLSCI 353 / JUDAIC 353 / MENAS 353. The Arab-Israeli Conflict
(4). May not be repeated for credit.

POLSCI 355 / AAS 356. Democracy and Development in Africa
(4). May not be repeated for credit.

POLSCI 360 / AAS 363 / INTLSTD 360. Politics of International Aid
(4). (SS). May not be repeated for credit.

POLSCI 362 / HISTORY 312. History of European Integration
(4; 3 in the half-term). (ID). May not be repeated for credit.

POLSCI 368. Modern Warfare
No credit given to students who took this as a topics course under POLSCI 389 topic ID #79. (Prerequisites enforced at registration.) POLSCI

160. (4). (SS). May not be repeated for credit.

POLSCI 369. Politics of International Economic Relations

POLSCI 101, 111, 140 or 160. (4; 3 in the half-term). (SS). May not be repeated for credit.

POLSCI 372. International Security Affairs

One course in Political Science. (Prerequisites enforced at registration.) (3). May not be repeated for credit.

POLSCI 373 / INTLSTD 373. Data Science for International Studies

STATS 250 or STATS 206. (3). May not be repeated for credit.

POLSCI 378. The Historical Evolution of the Sovereign State System

POLSCI 160. (3). May not be repeated for credit.

POLSCI 379. "Empire of Liberty": The Politics of US Colonialism

POLSCI 101: Intro to Political Theory or POLSCI 306: American Political Thought (early) or POLSCI 307: American Political Thought (late).

(3). May not be repeated for credit.

POLSCI 380 / ENVIRON 312 / PUBPOL 312. Environmental Politics and Policy

(3). May not be repeated for credit.

POLSCI 381. Political Science Research Design

(3). (SS). May not be repeated for credit.

POLSCI 382. Antislavery and the US Constitution

POLSCI 101 or POLSCI 111. (3). May not be repeated for credit.

POLSCI 383. Political Science Research Opportunity

Consent of instructor required. (1 - 3). (INDEPENDENT). May be repeated for a maximum of 6 credits. May be elected more than once in the same term.

POLSCI 384. Directed Studies

Consent of instructor required. (1 - 3). (INDEPENDENT). May be repeated for a maximum of 6 credits. May be elected more than once in the same term.

POLSCI 385. Political Science Special Topics Mini Course

(1 - 2). May be elected twice for credit. May be elected more than once in the same term.

POLSCI 386 / SOC 379. Sports, Politics, and Society

One introductory course in sociology or political science. (3). (SS). May not be repeated for credit. No credit for those who have completed SOC 212/GERMAN 212.

POLSCI 387. Comparative Analysis of Government Institutions

Two courses in political science or junior standing. (3 - 4). (SS). (QR/2). May not be repeated for credit.

POLSCI 389. Topics in Contemporary Political Science

One course in Political Science. (3 - 4). May be repeated for a maximum of 12 credits. May be elected more than once in the same term.

POLSCI 391 / CMLXSYS 391. Introduction to Modeling Political Processes

One course in Political Science. (4). (SS). (BS). (QR/1). May not be repeated for credit.

POLSCI 392. Michigan in Washington: Preparatory Seminar

Consent of department required. Admission to Michigan in Washington Program. (2). May be elected twice for credit. Continuing Course. Y grade can be reported at end of the first-term to indicate work in progress. At the end of the second term, the final grade is posted for both term's elections. Offered mandatory credit/no credit.

POLSCI 393. Inside Washington, D.C.

Consent of instructor required. (1). (EXPERIENTIAL). May not be repeated for credit. Offered mandatory credit/no credit.

POLSCI 395 / HISTORY 332 / REEES 395 / SLAVIC 395 / SOC 392. Russia and the Soviet Union: Reform, Revolution, and the Socialist Experiment

(4; 3 in the half-term). (SS). May not be repeated for credit. May not be counted in a Slavic Department academic minor. F.

POLSCI 397 / HISTORY 341. Nations and Nationalism

(4). (SS). May not be repeated for credit.

POLSCI 398. Michigan In Washington: Internship

Consent of department required. (2). (EXPERIENTIAL). May not be repeated for credit. Offered mandatory credit/no credit.

POLSCI 399. Advanced Internship in Political Science

Consent of instructor required. Political Science majors who have completed at least two-upper-level POLSCI courses. (3). (EXPERIENTIAL). May be elected twice for credit.

POLSCI 401 / WGS 422. Feminist Political Theory

Junior standing. (3). May not be repeated for credit.

POLSCI 402. Liberalism and Its Critics

POLSCI 101 or 302. (3). May not be repeated for credit.

POLSCI 406. Democratic Theory

POLSCI 101 or 302. (3). May not be repeated for credit.

POLSCI 407. Marxism and 20th-Century Radicalism

POLSCI 101 or 302. (Prerequisites enforced at registration.) (3). May not be repeated for credit.

POLSCI 409. Twentieth Century Political Thought

POLSCI 101, 302 or an equivalent. (3). May not be repeated for credit.

POLSCI 410. Washington Experience Seminar

Consent of instructor required. (2). (EXPERIENTIAL). May not be repeated for credit. Offered mandatory credit/no credit.

POLSCI 411. Michigan In Washington: National Capital Research Project

Consent of department required. (4). May not be repeated for credit.

POLSCI 421. Law and Gender

Not available for students who have completed POLSCI 496, Topic = Law and Gender (Topic Id # = 11). (Prerequisites enforced at registration.) Senior standing. (3). May not be repeated for credit.

POLSCI 432. Law and Public Policy

Two courses in Political Science, including POLSCI 111 or its equivalent. (4; 3 in the half-term). May not be repeated for credit.

POLSCI 434 / HISTORY 434. Russia/USSR in the 20th and 21st Centuries: War, Revolution, and Reform

(4). May not be repeated for credit.

POLSCI 435. Research Seminar on the Israeli-Palestinian Conflict

Consent of instructor required. (3). May not be repeated for credit.

POLSCI 436. Research Seminar on Middle East Politics and Society

Consent of instructor required. (3). May not be repeated for credit.

POLSCI 441 / AAS 441 / INTLSTD 441. Political Violence in Africa

(3). May not be repeated for credit.

POLSCI 447. The Politics of Human Rights

Introduction to World Politics OR Introduction Comparative Politics. (3). May not be repeated for credit.

POLSCI 482 / ECON 483. Positive Political Economy

ECON 401 with a grade of at least C-; or Graduate standing. (Prerequisites enforced at registration.) (3). May not be repeated for credit.

POLSCI 485. Election Forensics

Political Science major. (3). (QR/2). May not be repeated for credit.

POLSCI 486. Public Opinion, Political Participation, and Pressure Groups

One course in Political Science. (Prerequisites enforced at registration.) (3). May not be repeated for credit.

POLSCI 489. Advanced Topics in Contemporary Political Science

(3 - 4). May be repeated for a maximum of 12 credits. May be elected more than once in the same term.

POLSCI 490. Game Theory and Formal Models

(4). May not be repeated for credit.

POLSCI 491. Michigan in Washington: Advanced Topics

Consent of instructor required. Two courses in Political Science and permission of instructor and the Director of Undergraduate Studies. (3). May be repeated for a maximum of 8 credits. May be elected more than once in the same term. POLSCI 491 and 492 may be elected for a combined maximum of eight credits. No more than four credits of directed study credit may be elected as part of a concentration program in Political Science. F.

POLSCI 492. Michigan in Washington: Advanced Topics

Consent of instructor required. Two courses in Political Science and permission of instructor and the Director of Undergraduate Studies. (3). May be repeated for a maximum of 8 credits. May be elected more than once in the same term. POLSCI 491 and 492 may be elected for a combined maximum of eight credits. No more than four credits of directed study credit may be elected as part of a concentration program in Political Science. W.

POLSCI 493. Senior Honors Proseminar

Open only to senior Honors concentrators. (4). (INDEPENDENT). May not be repeated for credit. No more than four Honors credits may be elected as part of a concentration plan in Political Science. Continuing Course. Y grade can be reported at end of the first-term to indicate work in progress. At the end of the second term (POLSCI 494), the final grade is posted for both term's elections. F.

POLSCI 494. Senior Honors Proseminar

Open only to senior Honors concentrators. (4). (INDEPENDENT). May not be repeated for credit. No more than four Honors credits may be elected as part of a concentration plan in Political Science. W.

POLSCI 495. Undergraduate Seminar in Political Theory

One of the following: POLSCI 101, 301, 302, 307, 309; or PHIL 366; or GTBOOKS 191 or 192. (Prerequisites enforced at registration.) (3 - 4; 3 in the half-term). May be elected twice for credit. May be elected more than once in the same term.

POLSCI 496. Undergraduate Seminar in American Government and Politics

Senior standing; primarily for seniors concentrating in Political Science. (3 - 4). May be elected twice for credit. May be elected more than once in the same term.

POLSCI 498. Undergraduate Seminar in International Politics

Senior standing; primarily for seniors concentrating in Political Science. (3 - 4). May be elected twice for credit. May be elected more than once in the same term.

POLSCI 499. Survey Design and Analysis

(4). May not be repeated for credit.

POLSCI 514. The Use of Social Science Computer Programs

Consent of instructor required. POLSCI 599/equivalent or permission of instructor. (2). May not be repeated for credit.

LSA Program in Computing for the Arts & Sciences

Courses In Computation for Arts and Sciences (COMPFOR)

COMPFOR 101. The Transistor Disruption: How a Tiny Tool Transforms Society and Science

(3). (MSA). (BS). (QR/1). May not be repeated for credit.

COMPFOR 111. Computing's Impact on Justice: From Text to the Web

(3). (ID). (QR/1). May not be repeated for credit.

COMPFOR 121. Computing for Creative Expression

(3). (CE). (QR/1). May not be repeated for credit.

COMPFOR 131 / BIOLOGY 131. Python Programming for the Sciences

(3). (MSA). (BS). (QR/1). May not be repeated for credit.

COMPFOR 150 / LING 123. The ABC's of Python: Language, Mind, and the Nature of Programming

(3). (MSA). (BS). (QR/1). May not be repeated for credit.

COMPFOR 221. Digital Media with Python

(3). (MSA). (QR/1). May not be repeated for credit.

COMPFOR 250 / LING 321. Alien Anatomy: How ChatGPT Works

No credit in LING 394 or COMPFOR 302 with topic Alien Anatomy: How ChatGPT works. (Prerequisites enforced at registration.) (3). (SS).

May not be repeated for credit.

COMPFOR 302. Topics in Computing for the Social Sciences

(3 - 4). (SS). May be elected twice for credit. May be elected more than once in the same term.

COMPFOR 303. Topics in Computing for the Natural Sciences

(3 - 4). (NS). May be elected twice for credit. May be elected more than once in the same term.

COMPFOR 304. Topics in Computing for the Arts and Sciences

COMPFOR 111 or 121, or any course with a significant introductory level programming component. (1 - 4). May be elected twice for credit. May be elected more than once in the same term.

LSA Psychology

Courses In Psychology (PSYCH)

PSYCH 111. Introduction to Psychology

(4). (SS). May not be repeated for credit. No credit granted to those who have completed or are enrolled in PSYCH 112, 114, or 115. PSYCH 111 may not be included in a major in Psychology or a major in Biopsychology, Cognition, and Neuroscience. Students in PSYCH 111 are required to spend five hours outside of class participating as subjects in research projects. F, W, Sp, Su.

PSYCH 112. Introduction to Psychology as a Natural Science

(4). (NS). (BS). May not be repeated for credit. No credit granted to those who have completed or are enrolled in PSYCH 111, 114, 115, or 116. PSYCH 112 may not be included in a major in Psychology or a major in Biopsychology, Cognition, and Neuroscience. Students in PSYCH 112 are required to spend five hours outside of class participating as subjects in research projects.

PSYCH 120. First-Year Seminar in Psychology as a Social Science

Enrollment restricted to first-year students, including those with sophomore standing. (3). (SS). May not be repeated for credit. Does not count toward the requirements for the Psychology major nor the major in Biopsychology, Cognition, and Neuroscience.

PSYCH 121. First-Year Seminar in Psychology as a Natural Science

Enrollment restricted to first-year students, including those with sophomore standing. (3). (NS). (BS). May not be repeated for credit. Does not count toward the requirements for the Psychology major nor the major in Biopsychology, Cognition, and Neuroscience.

PSYCH 122 / ALA 122 / EDUC 122 / SOC 122. Intergroup Dialogues

Consent of instructor required. (3). (SS). (R&E). May be repeated for a maximum of 6 credits. May not be used as a prerequisite for, or included in a major in Psychology. Does not count toward the requirements for the major in Biopsychology, Cognition, and Neuroscience.

PSYCH 200. Independent Study in Psychological Issues

Consent of instructor required. One of the following: PSYCH 111, 112, 114, 115, 120, or 121. (1 - 4). (INDEPENDENT). May be repeated for a maximum of 4 credits.

PSYCH 211. Project Outreach

Prior or concurrent enrollment in an introductory Psychology course. (3). (EXPERIENTIAL). May be repeated for a maximum of 6 credits. May be elected more than once in the same term. This course may only be repeated if a different section is selected.

PSYCH 213 / ALA 220 / SOC 218. Foundations of Intergroup Relations

No credit granted if you've already taken ALA 220, SOC 218, or PSYCH 218 with the topic "Foundations in Intergroup Relations (#2). (Prerequisites enforced at registration.) (3). (SS). (R&E). May not be repeated for credit.

PSYCH 220. Introduction to Biopsychology, for Non-BCN or Non-Neuroscience majors

(4). (NS). (BS). May not be repeated for credit.

PSYCH 223 / ALA 223. Entrepreneurial Creativity

No credit is granted for students who previously took UC 270 with the topic "Entrepreneurial Creativity" (#27). (Prerequisites enforced at registration.) (3). May not be repeated for credit. Does not count toward the requirements for the Psychology or Biopsychology, Cognition, and Neuroscience majors.

PSYCH 226. Undergraduate Research in Psychology

Consent of instructor required. (1 - 4). (EXPERIENTIAL). May be repeated for a maximum of 8 credits. Credit is granted for a combined total of 8 credits in any UROP research course.

PSYCH 230 / NEURO 230. Introduction to Behavioral Neuroscience

(PSYCH 111 or 112 or 114) or (BIOLOGY 171 or 172 or 174 or 192 or 195). (Prerequisites enforced at registration.) Basic familiarity with biology and chemistry. (4). (NS). (BS). May not be repeated for credit. No credit granted to those who have completed or enrolled in PSYCH 220.

PSYCH 235. Introduction to Evolution and Behavior

One of the following: PSYCH 111, 112, 114, or 115. (Prerequisites enforced at registration.) (4). (NS). (BS). May not be repeated for credit.

PSYCH 240 / NEURO 240. Introduction to Cognitive Psychology

PSYCH 111 or 112 or 114. (Prerequisites enforced at registration.) (4). (NS). (BS). May not be repeated for credit.

PSYCH 242 / COGSCI 209 / LING 209. Language and Human Mind

Not available to students who have completed LING 103 (courseID 020035), Topic: Language and Mind, (Topic #6). (Prerequisites enforced at registration.) (4; 3 in the half-term). (ID). May not be repeated for credit. Does not count toward the requirements for the Psychology major.

PSYCH 250. Introduction to Developmental Psychology

One of the following: PSYCH 111, 112, 114, or 115. (Prerequisites enforced at registration.) (4). (SS). May not be repeated for credit.

PSYCH 265 / HISTORY 265 / STS 265. Minds and Brains in America

(4; 3 in the half-term). (HU). May not be repeated for credit.

PSYCH 270. Introduction to Abnormal Psychology

One of the following: PSYCH 111, 112, 114, or 115. (Prerequisites enforced at registration.) (4). (SS). May not be repeated for credit.

PSYCH 280. Introduction to Social Psychology

One of: PSYCH 111 or 112 or 114 or 115 or 116. (Prerequisites enforced at registration.) (4). (SS). May not be repeated for credit.

PSYCH 290. Introduction to the Psychology of Personality

One of: PSYCH 111 or 112 or 114 or 115 or 116. (Prerequisites enforced at registration.) (4). (SS). May not be repeated for credit.

PSYCH 291 / WGS 291. Introduction to the Psychology of Women

PSYCH 111, 112, 114, 115, 116 or WGS/NURS 220 (WOMENSTD/NURS 220). (Prerequisites enforced at registration.) (4). (SS). (R&E). May not be repeated for credit.

PSYCH 300. Research Methods Psych NS Special Topics

One of STATS 206, STATS 250, STATS 280, STATS 425, or MATH 425; and one of PSYCH 220, 230, 235, 240, 250, 270, 280, 290, 291. (Prerequisites enforced at registration.) (3). (NS). (BS). May be repeated for a maximum of 6 credits. May be elected more than once in the same term.

PSYCH 301. Research Methods Psych SS Special Topics

One of STATS 206, STATS 250, STATS 280, STATS 425, or MATH 425; and one of PSYCH 220, 230, 235, 240, 250, 270, 280, 290 or 291. (Prerequisites enforced at registration.) (3). (SS). (BS). May be repeated for a maximum of 6 credits. May be elected more than once in the same term.

PSYCH 302 / NEURO 302. Research Methods in Cognitive Neuroscience

One of STATS 206 OR STATS 250 OR STATS 280 OR STATS 425 OR MATH 425; and one of the following: PSYCH 220, 230, 235 or 240. (Prerequisites enforced at registration.) (3). (BS). May be repeated for a maximum of 6 credits.

PSYCH 303. Research Methods in Psychology

One of STATS 206, STATS 250, STATS 280, STATS 425, or MATH 425; and one of PSYCH 220, 230, 235, 240, 250, 270, 280, 290, 291. (Prerequisites enforced at registration.) (3). (BS). May not be repeated for credit.

PSYCH 304. Practicum in Teaching and Leading Groups

Consent of instructor required. One of the following: PSYCH 111, 112, 114, or 115 and permission of instructor. (2 - 4). (EXPERIENTIAL). May be repeated for a maximum of 6 credits. A maximum of 12 credits may be elected through PSYCH 304, 305, 306, 307, and 308. A total of six credits of Psychology letter-graded experiential courses may be counted for the Psychology concentration.

PSYCH 306. Project Outreach Group Leading

Consent of instructor required. PSYCH 211 and one of the following: PSYCH 111, 112, 114, or 115 and permission of instructor. (3). (EXPERIENTIAL). May be repeated for a maximum of 6 credits. A maximum of 12 credits may be elected through PSYCH 304, 305, 306, 307, and 308. A total of six credits of Psychology letter-graded experiential courses may be counted for the Psychology concentration.

PSYCH 307. Directed Experiences with Children

Consent of instructor required. One of the following: PSYCH 111, 112, 114, or 115 and permission of instructor. (3 - 4). (EXPERIENTIAL). May be repeated for a maximum of 7 credits. A maximum of 12 credits may be elected through PSYCH 304, 305, 306, 307, and 308. A total of six credits of Psychology letter-graded experiential courses may be counted for the Psychology concentration. F, W, Sp/Su, Sp, Su.

PSYCH 310 / ALA 320 / SOC 320. Processes of Intergroup Dialogues Facilitation

Admission by application. Previous participation in ALA 122/PSYCH 122/SOC 122 strongly encouraged. (3). (SS). (R&E). May not be repeated for credit.

PSYCH 311 / ALA 321 / EDUC 329 / SOC 321. Practicum in Facilitating Intergroup Dialogues

PSYCH 310/SOC 320 and permission of instructor. (4). (SS). (R&E). (EXPERIENTIAL). May not be repeated for credit. A total of six credits of Psychology letter-graded experiential courses may be counted for the Psychology concentration.

PSYCH 314. Positive Psychology

One of the following: PSYCH 111, 112, 114. (Prerequisites enforced at registration.) (3). (SS). May not be repeated for credit.

PSYCH 315 / AAS 327. Psychological Aspects of the Black Experience

One course in Psychology or Afro-American and African Studies. AAS 201 recommended. (3). (SS). (R&E). May not be repeated for credit.

PSYCH 316 / AAS 331. The World of the Black Child

One course in Psychology or Afro-American and African Studies. (3). May not be repeated for credit.

PSYCH 321 / HISTORY 305 / STS 305. American Addictions

(4; 3 in the half-term). (ID). May not be repeated for credit.

PSYCH 322. Field Practicum in Research Techniques for Psychology as a Natural Science

Consent of instructor required. One of the following: PSYCH 230, 240, 250, 260, 270, 280, or 290, and permission of instructor. (1 - 4). (BS). (EXPERIENTIAL). May be repeated for a maximum of 6 credits. Credit is granted for a combined total of six credits of PSYCH 322, 323, 326, 327. Credits may not be counted in the Psychology or BCN major. Offered mandatory credit/no credit.

PSYCH 324 / ALA 322 / SOC 324. Advanced Practicum in Intergroup Relations

Consent of instructor required. UC 320/PSYCH 310/SOC 320. (1 - 4). (EXPERIENTIAL). May be repeated for a maximum of 8 credits. A total of six credits of Psychology letter-graded Research-based courses may be counted towards the Psychology concentration.

PSYCH 325 / AMCULT 321. Detroit Initiative

One of the following: PSYCH 111, 112, 114, or 115. (1 - 4). (EXPERIENTIAL). May be elected three times for credit. A total of six credits of PSYCH letter-graded experiential courses may be counted for the Psychology major. PSYCH 325 must be taken for at least three credits to count as an experiential lab in the Psychology major. No more than 6 credits of directed readings/internships may be counted toward the American Culture major.

PSYCH 326. Faculty Directed Early Research for Psychology as a Natural Science

Consent of instructor required. One of: PSYCH 230, 240, 250, 260, 270, 280, or 290 with at least a grade of C. (1 - 4). (BS). (INDEPENDENT). May be repeated for a maximum of 30 credits. May be elected more than once in the same term. May be repeated for a maximum of 30 credits. A student may elect a combined maximum of 30 credits of PSYCH 322, 323, 326 and 327. A total of six credits of Psychology letter-graded Research-based courses may be counted towards the Psychology concentration.

PSYCH 330 / NEURO 330. Topics in Biopsychology

PSYCH 230. (Prerequisites enforced at registration.) (3). (NS). (BS). May be elected twice for credit. May be elected more than once in the same term.

PSYCH 331. Research Methods in Biopsychology, Cognition, and Neuroscience

Consent of instructor required. Admission by application. Completion of STATS 206 or STATS 250 or STATS 280 or STATS 425 or MATH 425; and one of the following: PSYCH 220, 230, 235, 240, 335, or 345. (4). (BS). May not be repeated for credit. Satisfies a Psychology research-based laboratory requirement.

PSYCH 333 / NEURO 333. Affective Neuroscience

PSYCH 230. (Prerequisites enforced at registration.) (3). (NS). (BS). May not be repeated for credit.

PSYCH 334 / NEURO 334. Neuroscience of Learning and Memory

PSYCH 230 or BIOLOGY 225. (Prerequisites enforced at registration.) (3). (NS). (BS). May not be repeated for credit.

PSYCH 336 / NEURO 336. Drugs of Abuse, Brain and Behavior

PSYCH 230 or BIOLOGY 225. (Prerequisites enforced at registration.) (BIOLOGY 162 or 163 or 172 or 195) and a CHEM course. (3). (NS). (BS). May not be repeated for credit.

PSYCH 337 / NEURO 337. Hormones and Behavior

One of the following: PSYCH 230, 235, or 335. (Prerequisites enforced at registration.) (3). (NS). (BS). May not be repeated for credit.

PSYCH 338 / ANTHRBIO 368. Primate Behavior

(4). (NS). (BS). May not be repeated for credit. F.

PSYCH 339 / NEURO 339. Biopsychology of Cooperation

One of the following: Psych 230, 235, or 335. (Prerequisites enforced at registration.) (3). (NS). (BS). May not be repeated for credit.

PSYCH 340 / NEURO 340. Topics in Cognition and Cognitive Neuroscience

PSYCH 240. (Prerequisites enforced at registration.) (3). (NS). (BS). May be elected twice for credit. May be elected more than once in the same term.

PSYCH 341. Advanced Laboratory in Cognitive Psychology

PSYCH 240; and one of the following: STATS 206, STATS 250, STATS 280, STATS 425, or MATH 425. (Prerequisites enforced at registration.) (3). (NS). (BS). May not be repeated for credit. Satisfies a Psychology research-based laboratory requirement.

PSYCH 342. Research Methods in Human Electroencephalography

One of STATS 206, STATS 250, STATS 280, STATS 425, or MATH 425; and one of PSYCH 220, 230, 235, 240, 250, 270, 280, 290 or 291. (Prerequisites enforced at registration.) (3). (BS). May not be repeated for credit.

PSYCH 345 / NEURO 345. Introduction to Human Neuropsychology

One of the following: PSYCH 111, 112, or 114. (Prerequisites enforced at registration.) (4). (NS). (BS). May not be repeated for credit. No credit granted to those who have completed or are enrolled in PSYCH 634.

PSYCH 347. Perception

PSYCH 230, 240 or 345. (Prerequisites enforced at registration.) (3). (NS). (BS). May not be repeated for credit.

PSYCH 348. Psychology of Thinking

PSYCH 240. (Prerequisites enforced at registration.) (3). (NS). (BS). May not be repeated for credit.

PSYCH 349 / LING 347. Talking Minds

At least one of: LING 111 or 210, or PSYCH 111, 112, 114, or 115. (3). (BS). May not be repeated for credit.

PSYCH 352 / LING 352. Development of Language and Thought

PSYCH 250. (3). (NS). (BS). May not be repeated for credit.

PSYCH 353. Social Development

PSYCH 250. (3). (SS). May not be repeated for credit.

PSYCH 355. Cognitive Development

PSYCH 250. (3). (NS). (BS). May not be repeated for credit.

PSYCH 356. Educational Psychology

PSYCH 250. (4). (SS). May not be repeated for credit.

PSYCH 357. Research Methods in Educational and Cross-cultural Contexts

One of PSYCH 220, 230, 240, 250, 270, 280, or 290. (Prerequisites enforced at registration.) PSYCH 356 and one of STATS 250, STATS 280, STATS 425, or MATH 425. (3). (BS). May not be repeated for credit.

PSYCH 358. Psychology of Adolescence

PSYCH 250. (Prerequisites enforced at registration.) (3). (BS). May not be repeated for credit.

PSYCH 360 / ENVIRON 360. Behavior and Environment

(3). (SS). May not be repeated for credit.

PSYCH 362 / ENVIRON 361. The Psychology of Environmental Stewardship

(3). (SS). May not be repeated for credit.

PSYCH 363. Human Cognitive Evolution

PSYCH 230 or 235 or 335. (Prerequisites enforced at registration.) (3). (NS). (BS). May not be repeated for credit.

PSYCH 364. Biopsychology of Sports

PSYCH 230 or 235 or 335. (Prerequisites enforced at registration.) (3). (NS). (BS). May not be repeated for credit.

PSYCH 365. Animal Behavior

PSYCH 230 or PSYCH 235 or PSYCH 335. (Prerequisites enforced at registration.) (3). (NS). (BS). May not be repeated for credit.

PSYCH 366. Field Biology and Behavioral Methods

PSYCH 230 or 235 or PSYCH 335; and one of the following: STATS 206, STATS 250, STATS 280, STATS 425, or MATH 425. (Prerequisites enforced at registration.) PSYCH 365. (3). (NS). (BS). May not be repeated for credit.

PSYCH 370. Topics in Clinical Psychology

PSYCH 270. (Prerequisites enforced at registration.) (3). May be elected twice for credit. May be elected more than once in the same term.

PSYCH 371. Advanced Laboratory in Psychopathology

One of STATS 206, STATS 250, STATS 280, STATS / MATH 425; and PSYCH 270. (Prerequisites enforced at registration.) (3). May not be repeated for credit.

PSYCH 373. Child and Adolescent Psychopathology

One of the following: PSYCH 111, 112, 114, or 115. (Prerequisites enforced at registration.) (3). (SS). May not be repeated for credit.

PSYCH 375. Health Psychology

PSYCH 111, 112, or 114. (Prerequisites enforced at registration.) (3). (SS). May not be repeated for credit.

PSYCH 381. Advanced Laboratory in Social Psychology

STATS 206, STATS 250, STATS 280, STATS 425, or MATH 425; and one of the following: PSYCH 111, 112, 114, or 115. (Prerequisites enforced at registration.) PSYCH 280. (3). May not be repeated for credit. Satisfies a Psychology research-based laboratory requirement. F, W, Su.

PSYCH 382. Psychology of Close Relationships

One of the following: PSYCH 280 or PSYCH 290. (Prerequisites enforced at registration.) (3). (SS). May not be repeated for credit.

PSYCH 383. Introduction to Survey Research I

STATS 206, 250, 280, 425 or MATH 425. (Prerequisites enforced at registration.) PSYCH 280. (3). May not be repeated for credit. Satisfies a Psychology research-based laboratory requirement.

PSYCH 385. Sex and Survival

PSYCH 280. (Prerequisites enforced at registration.) (3). (SS). May not be repeated for credit.

PSYCH 389. Psychology and Law

PSYCH 111 or 112 or 114 or 115 or 116. (Prerequisites enforced at registration.) (3). (SS). May not be repeated for credit.

PSYCH 390. Topics in Personality and Social Contexts

PSYCH 280 OR PSYCH 290. (Prerequisites enforced at registration.) (3). (SS). May be elected twice for credit. May be elected more than once in the same term.

PSYCH 393. Political Psychology

Introductory Psychology. A prior course or interest in History or Political Science is useful, though not required. (3). (SS). May not be repeated for credit.

PSYCH 395. Organizational Psychology

One of: PSYCH 111 or 112 or 114 or 115 or 116. (Prerequisites enforced at registration.) (4). (SS). May not be repeated for credit.

PSYCH 401. Special Problems in Psychology as a Social Science

One of the following: PSYCH 111, 112, 114, or 115. (Prerequisites enforced at registration.) (1 - 4). May be repeated for a maximum of 12 credits. May be elected more than once in the same term. Only 6 credits of PSYCH 400, 401, 402 combined may be counted toward a concentration plan in Psychology, and a maximum of 12 credits may be counted toward graduation.

PSYCH 402. Special Problems in Psychology as a Natural Science

One of the following: PSYCH 111, 112, 114, or 115. (Prerequisites enforced at registration.) One of the following: PSYCH 230, 235, 240, 250, 270, 280, 290, 291. (2 - 4). (BS). May be repeated for a maximum of 12 credits. Only 6 credits of PSYCH 400, 401, 402 combined may be counted toward a concentration plan in Psychology, and a maximum of 12 credits may be counted toward graduation.

PSYCH 404. Field Practicum

Consent of instructor required. One of the following: PSYCH 230, 240, 250, 260, 270, 280, or 290, and permission of instructor. (1 - 4). (EXPERIENTIAL). May be repeated for a maximum of 8 credits. Credit is granted for a combined total of fifteen credits elected from Experiential lab courses. May be used as an experiential lab in the Psychology major but not the major in Biopsychology, Cognition, and Neuroscience; credits may not be used toward either major. F, W, Sp/Su, Sp, Su. Offered mandatory credit/no credit.

PSYCH 405. Field Practicum in a University Setting

Consent of instructor required. One of the following: PSYCH 230, 240, 250, 260, 270, 280, or 290, and permission of instructor. (1 - 4). (EXPERIENTIAL). May be repeated for a maximum of 4 credits. Credit is granted for a combined total of fifteen credits elected from Experiential lab courses. May be used as an experiential lab in the Psychology major but not the major in Biopsychology, Cognition, and Neuroscience; credits may not be used toward either major. F, W, Sp/Su, Sp, Su. Offered mandatory credit/no credit.

PSYCH 406. Psychology of Ideology, Hegemony, and Political Behavior

One of STATS 206, STATS 250, STATS 280, STATS 425, or MATH 425; and one of PSYCH 220, 230, 235, 240, 250, 270, 280, 290, 291. (Prerequisites enforced at registration.) (3). (R&E). May not be repeated for credit.

PSYCH 411 / ALA 429 / SOC 471. IGR Senior Capstone: Social Justice in the Real World

Consent of instructor required. UC/SOC 320/321/PSYCH 310/311 or CASC Foundations and 2 related courses in social movements or activism. (3). May not be repeated for credit.

PSYCH 413. A History of Modern Psychology

One of PSYCH 220, 230, 235, 240, 250, 260, 270, 280, 290, 291. (Prerequisites enforced at registration.) (3). May not be repeated for credit. Rackham credit requires additional work.

PSYCH 420. Faculty Directed Advanced Tutorial Reading for Psychology as a Natural Science

Consent of instructor required. Proposal required. Approval of the instructor and Psychology Committee on undergraduate Studies and PSYCH 230, 240, 335, or 345. (1 - 4). (INDEPENDENT). May be repeated for a maximum of 6 credits.

PSYCH 421. Faculty Directed Advanced Tutorial Reading for Psychology as a Social Science

Consent of instructor required. Proposal required. Approval of the instructor and Psychology Committee on Undergraduate Studies and one of the following: PSYCH 230, 240, 250, 260, 270, 280, or 290. (1 - 4). (INDEPENDENT). May be repeated for a maximum of 6 credits.

PSYCH 422. Faculty Directed Advanced Research for Psychology as a Natural Science

Consent of instructor required. Proposal required. Approval of the instructor and Psychology Committee on undergraduate Studies. STATS 250 or STATS 280 or STATS 425; and one of the following: PSYCH 302, 331, 341, or 342. (1 - 4). (BS). (INDEPENDENT). May be repeated for a maximum of 6 credits. A total of six credits of Psychology letter-graded Research-based courses may be counted towards the Psychology concentration.

PSYCH 423. Faculty Directed Advanced Research for Psychology as a Social Science

Consent of instructor required. Proposal required. Approval of the instructor and Psychology Committee on Undergraduate Studies. STATS 250 or STATS 280 or STATS 425; and one of the following: PSYCH 302, 303, 331, 341, 342, 351, 361, 371, 381, 383, or 391. (3 - 4). (INDEPENDENT). May be repeated for a maximum of 6 credits. A total of six credits of Psychology letter-graded Research-based courses may be counted towards the Psychology concentration.

PSYCH 424. Senior Honors Research I for Psychology as a Natural Science

Consent of instructor required. Acceptance into the Psychology Honors Program, STATS 250, STATS 280, or STATS 425; and prior research experience. (2 - 4). (BS). May not be repeated for credit.

PSYCH 426. Senior Honors Research II for Psychology as a Natural Science

Consent of instructor required. Permission of the Psychology Honors Program Director, PSYCH 424 and good standing in the Psychology Honors Program. (2 - 4). (BS). May not be repeated for credit.

PSYCH 428. Senior Thesis I: Research in Psychology/BCN

Consent of department required. Senior standing. STATS 250 or STATS 280, and prior research experience. (2 - 4). (BS). (INDEPENDENT). May not be repeated for credit. No credit granted to those who have completed or are enrolled in PSYCH 424, 425, 426, or 427.

PSYCH 429. Senior Thesis II: Research in Psychology/BCN

Consent of department required. Senior standing. STATS 250 or STATS 280, and PSYCH 428. (2 - 4). (BS). (INDEPENDENT). May not be repeated for credit. No credit granted to those who have completed or are enrolled in PSYCH 424, 425, 426, or 427.

PSYCH 430 / NEURO 430. Advanced Topics in Biopsychology

One of the following: Psych 230, 235, or 335. (Prerequisites enforced at registration.) (3). (BS). May be elected twice for credit. May be elected more than once in the same term. Rackham credit requires additional work.

PSYCH 431 / NEURO 431. Advanced Topics in Behavioral Neuroscience
PSYCH 230. (Prerequisites enforced at registration.) (3). (BS). May be elected twice for credit. May be elected more than once in the same term. Rackham credit requires additional work.

PSYCH 433 / NEURO 433. Advanced Topics in Neuroscience
PSYCH 230 or BIOLOGY 225. (Prerequisites enforced at registration.) (3). (BS). May be elected twice for credit. May be elected more than once in the same term. Rackham credit requires additional work.

PSYCH 436 / NEURO 436. Sleep: Brain and Behavior, From Flies to Humans
One of the following: PSYCH 230, 235, or 335. (Prerequisites enforced at registration.) (3). (BS). May not be repeated for credit.

PSYCH 439 / NEURO 439. The Developing Brain
PSYCH 230. (Prerequisites enforced at registration.) (3). (BS). May not be repeated for credit.

PSYCH 440 / NEURO 440. Advanced Topics in Cognitive Neuroscience
PSYCH 240. (Prerequisites enforced at registration.) (3). (BS). May be elected twice for credit. May be elected more than once in the same term.

PSYCH 442 / NEURO 442. The Neuroscience of Perception
PSYCH 220 or 230 or 240 or 345. (Prerequisites enforced at registration.) (3). (BS). May not be repeated for credit.

PSYCH 444 / COGSCI 432 / LING 432 / NEURO 432. Introduction to Neurolinguistics
LING 209, LING 210, COGSCI 200, or PSYCH 240. (3). (BS). May not be repeated for credit.

PSYCH 445 / LING 447. Psychology of Language
PSYCH 240 and PSYCH 349/LING 347. (Prerequisites enforced at registration.) (3). (BS). May not be repeated for credit.

PSYCH 446. Altruism
PSYCH 240. (Prerequisites enforced at registration.) (3). (BS). May not be repeated for credit.

PSYCH 447. Current Topics in Cognition and Cognitive Neuroscience
PSYCH 230, 240, or 345. (Prerequisites enforced at registration.) (3). (BS). May be elected twice for credit.

PSYCH 449. Decision Processes
One of STATS 250 or STATS 280 or STATS 425 or MATH 425. (3). (BS). May not be repeated for credit.

PSYCH 454 / NEURO 454. Developmental Cognitive Neuroscience
PSYCH 250. (Prerequisites enforced at registration.) (3). (BS). May not be repeated for credit.

PSYCH 456. Human Infancy
PSYCH 250. (3). May not be repeated for credit.

PSYCH 457. Current Topics in Developmental Psychology
One of the following: PSYCH 111, 112, 114, or 115. (Prerequisites enforced at registration.) PSYCH 250. (3). May be elected twice for credit.

PSYCH 460 / ANTHRBIO 464. Behavioral Biology of Women
(3). (BS). May not be repeated for credit. Rackham credit requires additional work.

PSYCH 461. Animal Cognition
PSYCH 230 or PSYCH 235 or PSYCH 335. (Prerequisites enforced at registration.) (3). (BS). May not be repeated for credit.

PSYCH 462. Primate Communication and Language
Psych 230 or 235 or 335. (Prerequisites enforced at registration.) (3). (BS). May not be repeated for credit.

PSYCH 463 / ANTHRBIO 463 / ENVIRON 473. Statistical Modeling and Data Visualization in R
Basic knowledge of statistics (e.g., linear regression). Some prior experience with R is advisable, but not required. (4). (BS). (QR/1). May not be repeated for credit. Rackham credit requires additional work.

PSYCH 464. Mammalian Social Behavior
PSYCH 230 or PSYCH 235 or PSYCH 335. (Prerequisites enforced at registration.) (3). (BS). May not be repeated for credit.

PSYCH 465. Evolution and Human Nature
PSYCH 230 or PSYCH 235 or PSYCH 335. (Prerequisites enforced at registration.) (3). (BS). May not be repeated for credit.

PSYCH 466. The Origins of Moral Behavior
One of PSYCH 220, 230, 235, 240, 250, 270, 280, 290, 291. (Prerequisites enforced at registration.) PSYCH 250. (3). (BS). May not be repeated for credit.

PSYCH 468 / ANTHRBIO 468. Evolutionary Endocrinology
PSYCH 235, PSYCH 335, PSYCH 337, or EEB 492. (3). (BS). May not be repeated for credit. Rackham credit requires additional work.

PSYCH 469 / ANTHRBIO 478. Advanced Primate Behavior
Consent of instructor required. PSYCH 235 or ANTHRBIO 368/PSYCH 338. (3). (BS). May not be repeated for credit.

PSYCH 472. Mental Health and Culture
Psych 270. (Prerequisites enforced at registration.) (3). May not be repeated for credit.

PSYCH 474. Introduction to Behavior Therapy
PSYCH 270. (Prerequisites enforced at registration.) (3). May not be repeated for credit.

PSYCH 475. Traumatic Stress
PSYCH 270. (Prerequisites enforced at registration.) (3). May not be repeated for credit.

PSYCH 476. Inside the Criminal Mind: Neural, Genetic and Environmental Contributions to Psychopathy, Violence and Aggression across Lifespan
Psych 270. (Prerequisites enforced at registration.) Have previously taken a biopsychology or neuroscience course. (3). (BS). May not be repeated for credit.

PSYCH 477. Current Topics in Clinical Psychology
PSYCH 270. (Prerequisites enforced at registration.) (3). May be elected twice for credit.

PSYCH 487. Current Topics in Social Psychology
One of the following: PSYCH 111, 112, 114, or 115. (Prerequisites enforced at registration.) PSYCH 280. (3). May be elected four times for credit. May be elected more than once in the same term.

PSYCH 488 / SOC 465 / WGS 465. Sociology of Deviance: From Sin to Sickness
One introductory course in Sociology. (4; 3 in the half-term). May not be repeated for credit.

PSYCH 495. Positive Organizational Psychology
One of the following: PSYCH 111, 112, or 114. (Prerequisites enforced at registration.) (3). May not be repeated for credit.

PSYCH 496. Identity at Work

One of the following: PSYCH 111, 112, or 114. (Prerequisites enforced at registration.) (3). May not be repeated for credit.

PSYCH 497. Current Topics in Personality and Social Contexts

One of the following: PSYCH 111, 112, 114, or 115. (Prerequisites enforced at registration.) PSYCH 290. (3). May be elected twice for credit. May be elected more than once in the same term.

PSYCH 532 / ANATOMY 541 / NEURO 532 / PHYSIOL 541. Mammalian Reproductive Physiology

MCDB 310 or BIOLCHEM 415 or CHEM 351; (C or better). (Prerequisites enforced at registration.) PHYSIOL 201 or PHYSIOL 502 or BIOL 225. (BS). May not be repeated for credit. W.

PSYCH 571. Advanced Topics in Clinical Psychology

Consent of instructor required. PSYCH 270 and permission of instructor. (3). May be repeated for credit. May be elected more than once in the same term.

LSA Quantitative Methods in the Social Sciences

Courses In Quantitative Methods in the Social Sciences (QMSS)

QMSS 201. Intro to Quantitative Methods in the Social Sciences

(4). (MSA). (BS). (QR/1). May not be repeated for credit.

QMSS 295. Special Topics in Quantitative Methods in the Social Sciences

(1 - 4). (BS). May be repeated for a maximum of 8 credits.

QMSS 301. Quantitative Social Science Analysis and Big Data

QMSS 201, and no credit in QMSS 251 completed prior to Winter 2022. (Prerequisites enforced at registration.) (4). (BS). May not be repeated for credit.

QMSS 395. Special Topics in Quantitative Methods in the Social Sciences

QMSS 201. (Prerequisites enforced at registration.) (1 - 4). (BS). May be repeated for a maximum of 8 credits.

QMSS 451. QMSS Senior Capstone: Social Science Study Management

Declared QMSS minor, QMSS 201, and QMSS 301. (Prerequisites enforced at registration.) (3). (BS). May not be repeated for credit.

QMSS 495. Special Topics in Quantitative Methods in the Social Sciences

QMSS 201 and QMSS 301. (Prerequisites enforced at registration.) (1 - 4). (BS). May be repeated for a maximum of 8 credits.

QMSS 499. Independent Study

Consent of department required. (1 - 4). (INDEPENDENT). May be repeated for a maximum of 8 credits. May be elected more than once in the same term.

LSA Residential College

Courses In RC Fine Arts (RCARTS)

RCARTS 210. Introduction to Visual Thinking: Adventures in Creativity

(4). (CE). May not be repeated for credit.

RCARTS 240. Drawing

(4). (CE). May not be repeated for credit.

RCARTS 250. Printmaking I

(4). (CE). May not be repeated for credit.

RCARTS 260. Photography

(4). (CE). May not be repeated for credit.

RCARTS 265. Socially Engaged Prison Photography

Consent of instructor required. RCARTS 285 - Photography. (4). (CE). May not be repeated for credit.

RCARTS 270. Sculpture I

(4). (CE). May not be repeated for credit.

RCARTS 280. Furniture I

(4). (CE). May not be repeated for credit.

RCARTS 290. Ceramics I

(4). (CE). May not be repeated for credit.

RCARTS 300 / RCSTP 300. Socially Engaged Visual Art in Prison

Consent of instructor required. (4). (CE). May be elected twice for credit.

RCARTS 320. Book Arts

Any visual arts course. (4). (CE). May not be repeated for credit.

RCARTS 334. Special Topics in the Creative Arts

Students cannot elect the same topic twice. (3 - 4). (CE). May be repeated for a maximum of 12 credits. May be elected more than once in the same term. Cannot elect the same topic twice.

RCARTS 350. Printmaking II

RCARTS 250. (Prerequisites enforced at registration.) (4). (CE). May not be repeated for credit.

RCARTS 359. Printmaking III

RCARTS 350. (Prerequisites enforced at registration.) (4). (CE). May not be repeated for credit.

RCARTS 360. Photography II

RCARTS 260. (Prerequisites enforced at registration.) (4). (CE). May not be repeated for credit.

RCARTS 369. Photography III

RCARTS 360. (Prerequisites enforced at registration.) (4). (CE). May not be repeated for credit.

RCARTS 370. Sculpture II

RCARTS 270. (Prerequisites enforced at registration.) (4). (CE). May not be repeated for credit.
RCARTS 379. Sculpture III
 RCARTS 370. (Prerequisites enforced at registration.) (4). (CE). May not be repeated for credit.
RCARTS 380. Furniture II
 RCARTS 280: Furniture I. (Prerequisites enforced at registration.) (4). (CE). May not be repeated for credit.
RCARTS 388. Furniture III
 RCARTS 380 Furniture II. (Prerequisites enforced at registration.) (4). (CE). May not be repeated for credit.
RCARTS 390. Ceramics II
 RCARTS 290. (Prerequisites enforced at registration.) (4). (CE). May not be repeated for credit.
RCARTS 399. Ceramics III
 RCARTS 390. (Prerequisites enforced at registration.) (4). (CE). May not be repeated for credit.
RCARTS 407 / ARTDES 407. Ceramics and Ritual: The Object as Protagonist
 ARTDES 181 or 202 or RCARTS 290. (Prerequisites enforced at registration.) May not be repeated for credit.

Courses In RC American Sign Language (RCASL)

RCASL 100. Introduction to Deaf Culture
 (3). May not be repeated for credit.
RCASL 101. Elementary American Sign Language
 Prior or concurrent enrollment in RCASL 100, RCCORE 102 (or LING 140). (4). May not be repeated for credit.
RCASL 102. Elementary American Sign Language II
 RCASL 101 (or RCCORE 103 or LING 150). (4). May not be repeated for credit.
RCASL 201. Intermediate American Sign Language
 RCASL 102 (or RCCORE 104 or LING 151). (4). May not be repeated for credit.
RCASL 202. Intermediate American Sign Language II
 RCASL 201 (or RCCORE 203 or LING 250). (4). (Lang Req). May not be repeated for credit.

RC Core Courses (RCCORE)

RCCORE 100. First Year Seminar
 SWC Writing Assessment. Only first-year students, including those with sophomore standing, may pre-register for First-Year Seminars. All others need permission of instructor. (4). (FYWR). May not be repeated for credit.
RCCORE 205. Independent Study
 Consent of instructor required. Sophomore standing and permission of instructor. (1 - 8). (INDEPENDENT). May be repeated for credit. Offered mandatory credit/no credit.
RCCORE 206. Independent Study
 Consent of instructor required. (1 - 4). (INDEPENDENT). May be repeated for a maximum of 8 credits.
RCCORE 209. Study Off-Campus
 Consent of instructor required. Sophomore standing and permission of instructor. (1 - 4). (EXPERIENTIAL). May be repeated for a maximum of 8 credits. Offered mandatory credit/no credit.
RCCORE 301. Community-Based Internship - Semester in Detroit
 Consent of department required. (4; 2 in the half-term). (EXPERIENTIAL). May not be repeated for credit. Offered mandatory credit/no credit.
RCCORE 302. Community-Based Internship Reflection Seminar
 Consent of department required. (3; 1 in the half-term). May not be repeated for credit.
RCCORE 305. Independent Study
 Consent of instructor required. Junior standing and permission of instructor. (1 - 8). (INDEPENDENT). May be repeated for credit. Offered mandatory credit/no credit.
RCCORE 306. Independent Study
 Consent of instructor required. (1 - 4). (INDEPENDENT). May be repeated for a maximum of 8 credits.
RCCORE 307. RC Practicum in College Team Teaching
 Consent of instructor required. Upperclass standing and permission of instructor. (1 - 4). (INDEPENDENT). May be repeated for credit.
RCCORE 308. Directed Peer Tutoring
 Consent of instructor required. (1 - 2). (EXPERIENTIAL). May be repeated for a maximum of 4 credits. Offered mandatory credit/no credit.
RCCORE 309. Study Off-Campus
 Consent of instructor required. Junior standing and permission of instructor. (1 - 16). (EXPERIENTIAL). May be repeated for credit. Offered mandatory credit/no credit.
RCCORE 334. Special Topics
 (1 - 4). May be repeated for a maximum of 12 credits. May be elected more than once in the same term.
RCCORE 405. Independent Study
 Consent of instructor required. Senior standing. (1 - 8). (INDEPENDENT). May be repeated for credit. Offered mandatory credit/no credit.
RCCORE 406. Independent Study
 Consent of instructor required. (1 - 4). (INDEPENDENT). May be repeated for a maximum of 8 credits.
RCCORE 409. Study Off-Campus
 Consent of instructor required. Senior standing. (1 - 16). (EXPERIENTIAL). May be repeated for credit. Offered mandatory credit/no credit.
RCCORE 410. Senior Project
 Consent of instructor required. (1 - 8). (INDEPENDENT). May be repeated for credit.
RCCORE 489. Honors Independent Research
 Permission of instructor. (1 - 4). (INDEPENDENT). May not be repeated for credit. Continuing Course. Y grade can be reported at end of the first-term to indicate work in progress. At the end of the second term of RCCORE 490, the final grade is posted for both term's elections.
RCCORE 490. Honors Thesis

Consent of instructor required. (1 - 4). (INDEPENDENT). May be repeated for a maximum of 8 credits.

Courses In RC Creative Writing and Literature (RCCWLIT)

RCCWLIT 220. Narration

Consent of instructor required. (4). (CE). May not be repeated for credit.

RCCWLIT 221. The Writing of Poetry

Permission of instructor. (4). (CE). May not be repeated for credit.

RCCWLIT 320. Advanced Narration

Consent of instructor required. RCHUMS 220 or RCCWLIT 220. (4). (CE). May not be repeated for credit.

RCCWLIT 321. Advanced Poetry Writing

Consent of instructor required. RCHUMS 221 or RCCWLIT 221. (4). (CE). May not be repeated for credit.

RCCWLIT 325. Introductory Creative Writing Tutorial

Consent of instructor required. (4). (CE). May not be repeated for credit.

RCCWLIT 326. Intermediate Creative Writing Tutorial

Consent of instructor required. RCHUMS 325 or RCCWLIT 325 and permission of instructor. (4). May not be repeated for credit.

RCCWLIT 331. Literary Monsters: Power, Culture, and the Meanings of Monstrosity

This course is intended for students in their sophomore year and above. (3). (HU). May not be repeated for credit.

RCCWLIT 334. Special Topics in Creative Writing

(3 - 4). (CE). May be elected four times for credit. May be elected more than once in the same term.

RCCWLIT 425. Tutorial for Creative Writing Majors

Consent of instructor required. RCCWLIT 325 and 326; restricted to RC Creative Writing majors. (4). May not be repeated for credit.

RCCWLIT 426. Advanced Creative Writing Tutorial

Consent of instructor required. RCCWLIT 325 and 326 or RCHUMS 325 and 326. (4). May be elected four times for credit.

Courses In RC Drama (RCDRAMA)

RCDRAMA 102. First Year Seminar in Drama (Creative Expression)

(3). (CE). May be elected twice for credit. May be elected more than once in the same term.

RCDRAMA 281. Inside the Dramatic Experience: Script Analysis and the Elements of Theater Production

(4). (CE). May not be repeated for credit.

RCDRAMA 282. Drama Interpretation I: Actor and Text

(4). (CE). May not be repeated for credit.

RCDRAMA 332 / THTREMUS 334. The Atonement Project

(3). May not be repeated for credit.

RCDRAMA 335 / THTREMUS 335. Theatre and Incarceration

May not be repeated for credit.

RCDRAMA 381. Shakespeare on the Stage

RCHUMS 280. (4). (HU). May not be repeated for credit.

RCDRAMA 387. Renaissance Drama

(4). May not be repeated for credit.

RCDRAMA 389. The Modern Theatre

(4). (HU). May be elected three times for credit.

RCDRAMA 482. Drama Interpretation II: Director and Text

RCDRAMA 281 or 282 or RCHUMS 281 or 282 or playwriting. (4). May not be repeated for credit.

RCDRAMA 485. Special Drama Topics

Consent of instructor required. Upper-class standing, RCDRAMA 281 or 282, two 300- or 400-level drama courses. (1 - 2). May be repeated for a maximum of 4 credits. May be elected more than once in the same term.

Courses In RC Humanities (RCHUMS)

RCHUMS 150 / FTVM 150. Introduction to Film, Television, and Media

(4). (HU). May not be repeated for credit.

RCHUMS 201. How to Think (Humanities)

(3 - 4). (HU). May not be repeated for credit.

RCHUMS 202. How to Think (Arts)

(3 - 4). (CE). May be elected twice for credit. May be elected more than once in the same term.

RCHUMS 218. The Hero as Outsider, Outcast or Outlaw

(3). (HU). May not be repeated for credit.

RCHUMS 235. Topics in World Dance

(3). (HU). May not be repeated for credit.

RCHUMS 251. Topics in Music

(3 - 4). (HU). May be repeated for a maximum of 12 credits. May be elected more than once in the same term.

RCHUMS 260 / DANCE 241. The Art of Dance: An Introduction to American and European Dance History, Aesthetics, and Criticism

(3). (HU). May not be repeated for credit.

RCHUMS 272 / HISTART 272. Modern Art: Avant-Garde to Contemporary

(4; 3 in the half-term). (HU). May not be repeated for credit.

RCHUMS 273 / ASIAN 273. North Korea: Real and Imagined

(4). (ID). May not be repeated for credit.

RCHUMS 280 / ENGLISH 245 / THTREMUS 211. Introduction to Drama and Theatre

(3; 2 in the half-term). (HU). May not be repeated for credit. No credit granted to those who have completed or are enrolled in RCHUMS 281.

RCHUMS 290. The Experience of Arts and Ideas in the Twentieth Century

(4). (HU). May not be repeated for credit.

RCHUMS 291. The Experience of Arts and Ideas in the Nineteenth Century

(4). (HU). May not be repeated for credit.

RCHUMS 303 / ENS 407. Global Performance Ensemble

One semester of gamelan. May be repeated for credit.

RCHUMS 304. Time, History, Arts, and Culture

(3). (HU). May not be repeated for credit.

RCHUMS 305. Art and Resistance

Sophomore standing. (3). (HU). (R&E). May be elected four times for credit.

RCHUMS 306. History of Writing in the West: The Book and the Body

(3). (HU). May not be repeated for credit.

RCHUMS 307 / GERMAN 309. Imagination

(3). (HU). May not be repeated for credit.

RCHUMS 309. Premodern Sources and Modern Culture

(4). (HU). May not be repeated for credit.

RCHUMS 312 / SLAVIC 312. Central European Cinema

A knowledge of Russian is not required. (3). (HU). (R&E). May not be repeated for credit. Taught in English.

RCHUMS 315. Representation in the Arts

(3). (HU). May be elected four times for credit.

RCHUMS 319. Topics in Film

(3). (HU). May be repeated for a maximum of 9 credits.

RCHUMS 333. Art and Culture

(3 - 4). (HU). May be repeated for a maximum of 12 credits.

RCHUMS 334. Special Topics in the Humanities

(3 - 4). (HU). May be elected four times for credit. May be elected more than once in the same term.

RCHUMS 337 / ENVIRON 337. Children Under Fire: Narratives of Sustainability

(3). (HU). May not be repeated for credit.

RCHUMS 341. Community Empowerment Through the Arts

(4). (HU). May be elected twice for credit.

RCHUMS 347 / RUSSIAN 347. Survey of Russian Literature

A knowledge of Russian is not required. No knowledge of Russian literature or history is presupposed. (4). (HU). May not be repeated for credit.

RCHUMS 356. The Symphonic Century: Music and Revolution in the 19th Century

(3). (HU). May not be repeated for credit.

RCHUMS 357. What Art Means: Analysis and Interpretation

(3). (HU). May be elected four times for credit.

RCHUMS 410. Upper-level Arts and Ideas Seminar

(4). May be elected twice for credit.

RCHUMS 423 / ENS 451. Out of the Blue

Consent of instructor required. May be elected 91 times for credit.

Courses In RC Interdivisional (RCIDIV)

RCIDIV 270 / ENVIRON 270. Globalization and its Discontents: Struggles for Food, Water, and Energy

(4). (ID). May not be repeated for credit.

RCIDIV 302. Advanced Issues in Science, Technology, Medicine, and Society

(3 - 4). (ID). May be elected twice for credit. May be elected more than once in the same term.

RCIDIV 341 / MIDEAST 341 / STS 342. Science and Technology in the Ancient Middle East

MIDEAST 200: Introduction to the Middle East. (3). (ID). May not be repeated for credit.

RCIDIV 350. Special Topics

(1). May be repeated for a maximum of 6 credits. May be elected more than once in the same term. Offered mandatory credit/no credit.

RCIDIV 351. Special Topics

(2). May be repeated for a maximum of 8 credits. May be elected more than once in the same term. Offered mandatory credit/no credit.

RCIDIV 391 / ENVIRON 391 / ORGSTUDY 391. Sustainability and the Campus

An introductory course in Environment, Earth, or related field (e.g., ENVIRON 110, 111, 201, 270). (4). (ID). May not be repeated for credit.

Courses In RC Languages (RCLANG)

RCLANG 150. Pre-Intensive French

Consent of department required. (4). May not be repeated for credit. Pass/Fail with Narrative Evaluation.

RCLANG 151. Elementary German

(4). May not be repeated for credit. Pass/Fail with Narrative Evaluation.

RCLANG 153. Elementary Russian

Consent of department required. (4). May not be repeated for credit. Pass/Fail with Narrative Evaluation.

RCLANG 154. Pre-Intensive Spanish

Consent of department required. (4). May not be repeated for credit. Pass/Fail with Narrative Evaluation.

RCLANG 156. Elementary Japanese

Consent of department required. (5). May not be repeated for credit. Pass/Fail with Narrative Evaluation.

RCLANG 190. Intensive French I

(8). May not be repeated for credit. No credit granted to those who have completed or are enrolled in FRENCH 100, 101, 102, or 103. Pass/Fail with Narrative Evaluation.

RCLANG 191. Intensive German I

(8). May not be repeated for credit. No credit granted to those who have completed or are enrolled in GERMAN 100, 101, 102, or 103. Conducted in German. Pass/Fail with Narrative Evaluation.

RCLANG 193. Intensive Russian I

Consent of instructor required. (8). May not be repeated for credit. Credit is granted from only one among RUSSIAN 103, 111 123, or RCLANG 193. No credit is granted to those who are enrolled or have completed RUSSIAN 101 or 102. Pass/Fail with Narrative Evaluation.

RCLANG 194. Intensive Spanish I

(8). May not be repeated for credit. No credit granted to those who have completed or are enrolled in SPANISH 100, 101, 102, or 103. Pass/Fail with Narrative Evaluation.

RCLANG 196. Intensive Japanese I

Consent of instructor required. (10). May not be repeated for credit. No credit granted to those who have completed or are enrolled in ASIANLAN 124, 125, 126, 127 or 129. Pass/Fail with Narrative Evaluation.

RCLANG 204. Spanish Language Internship Project I

Consent of instructor required. (1). (EXPERIENTIAL). May be elected eight times for credit. Offered mandatory credit/no credit.

RCLANG 250. Intermediate French

Consent of department required. (4). May not be repeated for credit. Pass/Fail with Narrative Evaluation.

RCLANG 251. Intermediate German

Consent of department required. (4). May not be repeated for credit. Pass/Fail with Narrative Evaluation.

RCLANG 253. Intermediate Russian

Consent of department required. (4). May not be repeated for credit. Pass/Fail with Narrative Evaluation.

RCLANG 254. Intermed Spanish

Consent of department required. (4). May not be repeated for credit. Pass/Fail with Narrative Evaluation.

RCLANG 256. Intermediate Japanese

Consent of department required. (5). May not be repeated for credit. Pass/Fail with Narrative Evaluation.

RCLANG 290. Intensive French II

RCLANG 190. (8). (Lang Req). May not be repeated for credit. No credit granted to those who have completed or are enrolled in FRENCH 230, 231, or 232. Pass/Fail with Narrative Evaluation.

RCLANG 291. Intensive German II

RCLANG 191 or GERMAN 100, 102, 103, or 221. (8). (Lang Req). May not be repeated for credit. No credit granted to those who have completed or are enrolled in GERMAN 221, 230, 231, or 232. Pass/Fail with Narrative Evaluation.

RCLANG 293. Intensive Russian II

Consent of instructor required. One of RCLANG 193, RUSSIAN 101 and 102 or RUSSIAN 103. (8). (Lang Req). May not be repeated for credit. Pass/Fail with Narrative Evaluation.

RCLANG 294. Intensive Spanish II

RCLANG 194. (8). (Lang Req). May not be repeated for credit. No credit granted to those who have completed or are enrolled in SPANISH 230, 231, or 232. Pass/Fail with Narrative Evaluation.

RCLANG 296. Intensive Japanese II

Consent of instructor required. ASIANLAN 129 or RCLANG 196. (10). (Lang Req). May not be repeated for credit. No credit granted to those who have completed or are enrolled in ASIANLAN 225, 226, and 227. Pass/Fail with Narrative Evaluation.

RCLANG 304. PALMA: Spanish in the Community

RC students must have passed the RC proficiency test; non-RC students must have completed Spanish 276. (1). (EXPERIENTIAL). May be elected four times for credit. Offered mandatory credit/no credit.

RCLANG 310. Accelerated Review-French

Permission of instructor. (4). May not be repeated for credit. Pass/Fail with Narrative Evaluation.

RCLANG 314. Accelerated Review-Spanish

(4). May not be repeated for credit. Pass/Fail with Narrative Evaluation.

RCLANG 320. Readings in French

Consent of instructor required. Successful completion of the RC French Proficiency, FRENCH 235 or instructor permission. (4). May be elected three times for credit.

RCLANG 321 / GERMAN 361. Readings in German

Consent of instructor required. Proficiency test. (4). May be elected twice for credit. May be elected more than once in the same term.

RCLANG 323. Russian Readings

Proficiency in Russian (by RC standards). (4). May not be repeated for credit.

RCLANG 324. Readings in Spanish

Consent of instructor required. Proficiency test. (4). May be repeated for credit.

RCLANG 396. Intensive Japanese III

RCLANG296/ASIANLAN229: Intensive Japanese II. (Prerequisites enforced at registration.) (8). May not be repeated for credit. No credit granted to those who have completed or are enrolled in ASIANLAN 325 and/or ASIANLAN326.

Courses In Residential College Music Program (RCMUSIC)

RCMUSIC 249. Foundations of Musicianship

(4). (CE). (EXPERIENTIAL). May not be repeated for credit.

RCMUSIC 254. The Human Voice as An Acoustical Instrument

(2 - 4; 4 in the half-term). (CE). May be elected twice for credit.

RCMUSIC 258. Afro-Cuban Drumming and Styles

(4). (CE). May not be repeated for credit.

RCMUSIC 259. Musical Improvisation

(4). (CE). May be elected twice for credit.

RCMUSIC 320. Chamber Music

(1 - 2; 1 in the half-term). (CE). May be repeated for a maximum of 8 credits. May be elected more than once in the same term. Offered mandatory credit/no credit.

RCMUSIC 321. Chinese Music Ensemble

(2). (CE). May be elected three times for credit.

RCMUSIC 323 / ENS 351. Arts Chorale

BY AUDITION. (CE). May be repeated for credit.

RCMUSIC 325 / ENS 307. Global Performance Ensemble

May be repeated for credit.

RCMUSIC 350. Creative Musicianship

(4). (CE). May not be repeated for credit.

RCMUSIC 351. Creative Musicianship Music Theory Lab

(1 - 2). (CE). May be repeated for a maximum of 4 credits.

RCMUSIC 352. Found Instruments-Building, Design and Performance

(4). (CE). May not be repeated for credit.

RCMUSIC 353. Fundamentals of Electronic Music

(4). (CE). May not be repeated for credit.

RCMUSIC 406. Music Independent Study

Consent of instructor required. (1 - 4). (INDEPENDENT). May not be repeated for credit.

Courses In RC Natural Sciences (RCNSCI)

RCNSCI 110 / BIOLOGY 110 / CLIMATE 171 / EARTH 171 / ENVIRON 110. Introduction to Global Change: The Science Behind Sustainability

(4). (NS). (BS). May not be repeated for credit.

RCNSCI 202 / ENVIRON 201. Ecological Issues

(4). (NS). (BS). May not be repeated for credit.

RCNSCI 301. Advanced Topics in Science, Technology, Medicine, and Society

(3 - 4). (NS). (BS). May be elected twice for credit. May be elected more than once in the same term.

Courses In RC Social Sciences (RCSSCI)

RCSSCI 275 / HISTORY 285 / STS 285. Science, Technology, Medicine, and Society

(4). (SS). May not be repeated for credit.

RCSSCI 312 / SW 312. Environmental Justice Grassroots Community Organizing in Detroit for Changing Times

May not be repeated for credit.

Courses In RC Social Theory and Practice (RCSTP)

RCSTP 101. First Year Seminar in Social Theory and Practice

(3). (SS). May be elected twice for credit. May be elected more than once in the same term.

RCSTP 220 / SOC 220. Political Economy

(4). (SS). May not be repeated for credit.

RCSTP 230. Poverty, Inequality, and Discrimination

(4). (SS). May not be repeated for credit.

RCSTP 250. Introductory Topics in Social Theory and Practice

(3 - 4). (SS). May be repeated for a maximum of 12 credits. May be elected more than once in the same term.

RCSTP 251 / WGS 251. Belonging in College: Race, Class, Gender, and Higher Education

(3). (ID). May not be repeated for credit.

RCSTP 260. Theorizing Knowledge in the Social Sciences

(3). (SS). May not be repeated for credit.

RCSTP 261 / SOC 261. Policing, Power, and Protest in the United States

(3). (SS). May not be repeated for credit.

RCSTP 290. Designing Your STP Major Proposal

(1). May not be repeated for credit. Offered mandatory credit/no credit.

RCSTP 300 / RCARTS 300. Socially Engaged Visual Art in Prison

Consent of instructor required. (4). (CE). May be elected twice for credit.

RCSTP 301 / SOC 313. Social Theory for Social Change

At least one 200-level social science course. (4). (SS). May not be repeated for credit.

RCSTP 302 / AMCULT 302 / STS 302. Contemporary Social and Cultural Theory

(4). (SS). May not be repeated for credit.

RCSTP 307 / AMCULT 397 / LATINOAM 307. Spanish Language Internship Project

(3). (SS). (R&E). May not be repeated for credit.

RCSTP 316 / HISTORY 372. Law and Social Policy

(3). (SS). May not be repeated for credit.

RCSTP 327 / ANTHRCUL 327 / STS 327 / WGS 307. Critical Theory in Medicine and Healing

One course in ANTHRCUL or RCSSCI or RCSTP or WGS/AMCULT 240 (WOMENSTD/AMCULT 240) or WGS (WOMENSTD) with an SS designation. (4). (SS). May not be repeated for credit.

RCSTP 330 / AAS 330. Living for the City: Black Study and Urban Transformation

(4). (ID). May not be repeated for credit.

RCSTP 343 / AAS 347 / SOC 335. Urban Inequality in America

One course in introductory sociology. (4; 3 in the half-term). (SS). May not be repeated for credit. No credit granted to students who are enrolled in or have completed SOC 435 or SOC 535.

RCSTP 350. Topics in Social Theory and Practice

Upperclass standing. (3 - 4). (SS). May be repeated for a maximum of 12 credits. May be elected more than once in the same term.

RCSTP 351 / ENVIRON 350. The Built Environment: Introduction to Landscape Change

(3). (ID). May not be repeated for credit.

RCSTP 356 / HISTORY 356. Histories of Race and Law

Previous coursework in US history, African American studies, or Ethnic Studies is recommended. (3). (SS). May not be repeated for credit.

RCSTP 357 / HISTORY 345. History and Theory of Punishment

(4). (SS). May not be repeated for credit.

RCSTP 360. Special Topics in Social Theory and Practice

(1 - 4). May be elected four times for credit. May be elected more than once in the same term. Offered mandatory credit/no credit.

RCSTP 362 / AMCULT 395 / LATINOAM 365. Migrants: Understanding the Inequities in the US Agricultural Workforce

(3). (SS). May not be repeated for credit.

RCSTP 365. Excellence, Equity, and the Politics of Education

(4). (SS). May not be repeated for credit.

RCSTP 390 / EDUC 390 / ELI 390 / LING 390. Community-Engaged Learning in ESL Teaching Contexts

(3). (EXPERIENTIAL). May be elected three times for credit.

RCSTP 391 / ENVIRON 390. Environmental Activism: Citizenship in a Republic

It is best to have at least one environmental course prior to this class. (3). (ID). May not be repeated for credit.

RCSTP 428 / ANTHRCUL 428 / WGS 428. Sex Panics in the US and UK since 1890

One course in WGS (WOMENSTD) or ANTHRCUL or RCSSCI, SOC, or HISTORY. (3). May not be repeated for credit.

RCSTP 450. Advanced Topics in Social Theory and Practice

Upperclass standing. (3 - 4). May be repeated for a maximum of 12 credits. May be elected more than once in the same term.

RCSTP 488. Organizing Internship

Consent of department required. (1). May not be repeated for credit. Offered mandatory credit/no credit.

RCSTP 489 / SOC 489. Organizing: People, Power, and Change

(3). May not be repeated for credit.

RCSTP 490. STP Capstone: Senior Project Seminar

Senior standing. (3). May not be repeated for credit.

LSA Romance Languages & Literatures

Courses In Catalan (CATALAN)

CATALAN 291 / SPANISH 291. Introduction to Catalan Language and Culture

SPANISH 277; or SPANISH 278 or AMCULT 224 or LATINOAM 224; or RCLANG 324; or study abroad equivalent (SP27 student group). (Prerequisites enforced at registration.) (3). May not be repeated for credit.

CATALAN 405 / SPANISH 405. Advanced Catalan Language, Culture, and Society

CATALAN 291/SPANISH 291. (Prerequisites enforced at registration.) (3). May not be repeated for credit. Rackham credit requires additional work.

CATALAN 441 / SPANISH 441. Topics in Catalan Literature and Culture

Nine credits chosen between SPANISH 279 and 399; or two RCLANG 324 and six credits chosen between SPANISH 279 and 399. (Prerequisites enforced at registration.) (3). May not be repeated for credit.

Courses In French (FRENCH)

FRENCH 100. Intensive Elementary French

No prior instruction in French OR placement of FRENCH 101. [No previous FRENCH coursework, excluding FRENCH 240, 241, 244, 340, 341, 342, 343, 344, 345, 402, 444, 453] OR [Byassignment of FRENCH 100 or 101 by Placement Exam (Student Group FR01 or Placement score 01)] . (Prerequisites enforced at registration.) Students with any prior study of French must take the Placement Test. (8 in the half-term). May not be repeated for credit. No credit granted to those who are enrolled in or have completed FRENCH 101, 102, 103, 113 or RCLANG 190.

FRENCH 101. Elementary French

No prior instruction in French OR placement of FRENCH 101. [No previous FRENCH coursework, excluding FRENCH 240, 241, 244, 340, 341, 342, 343, 344, 345, 402, 444, 453] OR [Byassignment of FRENCH 100 or 101 by Placement Exam (Student Group FR01 or Placement score 01)] . (Prerequisites enforced at registration.) Students with any prior study of French must take the Placement Test. (4). May not be repeated for credit. No credit granted to those who are enrolled in or have completed FRENCH 100, 113, or RCLANG 190.

FRENCH 102. Elementary French, Continued

FRENCH 101 (completed with a minimum grade of C- or better). (Prerequisites enforced at registration.) (4). May not be repeated for credit. No credit granted to those who have completed FRENCH 100, 103, 111 or 112, or RCLANG 190.

FRENCH 103. Review of Elementary French

Students with any prior study of French must take the Placement Test. Only the placement score and not language coursework completed at a previous school will determine placement; RCLANG 150. (Prerequisites enforced at registration.) (4). May not be repeated for credit. No credit granted to those who are enrolled in or have completed FRENCH 100, 102, 113, or RCLANG 190.

FRENCH 113. Accelerated Reading in French

(4). May not be repeated for credit. No credit granted to those who have completed FRENCH 100, 101, 102, 103, 111, 112, or RCLANG 190. Completion of FRENCH 113 does not satisfy, even partially, the LSA language requirement.

FRENCH 230. Intensive Second-Year French

One of FRENCH 100, 102, or 103 or RCLANG 190 (completed with a minimum grade of C- or better); OR assignment of FRENCH 231 on Placement test. (Prerequisites enforced at registration.) (8 in the half-term). (Lang Req). May not be repeated for credit. No credit granted to those who have completed FRENCH 231 or 232 or RCLANG 290 or 310.

FRENCH 231. Second-Year French

One of FRENCH 100, 102, or 103 or RCLANG 190, (completed with a minimum grade of C- or better); OR assignment of FRENCH 231 on Placement test. (Prerequisites enforced at registration.) (4). May not be repeated for credit. No credit granted to those who have completed FRENCH 230 or RCLANG 290 or 310.

FRENCH 232. Second-Year French, Continued

FRENCH 231 (completed with a minimum grade of C- or better); OR RCLANG 250; OR assignment by placement test. (Prerequisites enforced at registration.) (4). (Lang Req). May not be repeated for credit. No credit granted to those who have completed FRENCH 112 or 230 or RCLANG 290 or 310.

FRENCH 235. Advanced Practice in French

FRENCH 230 or 232 with a grade of C- or higher; or RCLANG 290 or 310; or assignment by placement test; or FRENCH 250x AP credit. Only the placement score and not language coursework completed at a previous school will determine placement. (Prerequisites enforced at registration.) Students who receive transfer credit from for FRENCH 232 and wish to continue with their language study are strongly encouraged to take the placement exam to be certain that they are prepared for FRENCH 235. (3). (HU). May not be repeated for credit.

FRENCH 240. French and Francophone Topics in Translation

A knowledge of French is not required. Enrollment restricted to first- and second-year students. (3). (HU). May not be repeated for credit. Taught in English.

FRENCH 241 / HISTART 271. Origins of Modernism: Art and Culture in Nineteenth Century France

(4). (HU). May not be repeated for credit.

FRENCH 242. Game of Thrones and the Middle Ages

Taught in English. No knowledge of French needed. (4). (HU). May not be repeated for credit.

FRENCH 270. French and Francophone Literature and Culture

FRENCH 235 or RCLANG 320 (completed with a minimum grade of C- or better). (Prerequisites enforced at registration.) (3). (HU). May be repeated for a maximum of 12 credits. May be elected more than once in the same term.

FRENCH 272. French and Francophone Film, Media, and Culture

FRENCH 235 or RCLANG 320 (completed with a minimum grade of C- or better). (Prerequisites enforced at registration.) (3). (HU). May be repeated for a maximum of 12 credits. May be elected more than once in the same term.

FRENCH 274. French and Francophone Societies and Culture

FRENCH 235 or RCLANG 320 (completed with a minimum grade of C- or better). (Prerequisites enforced at registration.) (3). (HU). May be repeated for a maximum of 12 credits. May be elected more than once in the same term.

FRENCH 276. Spoken and Written Performance in French

FRENCH 235 or RCLANG 320 (completed with a minimum grade of C- or better). (Prerequisites enforced at registration.) (3). (HU). May be repeated for a maximum of 12 credits. May be elected more than once in the same term.

FRENCH 278. French for the Professions

FRENCH 235 or RCLANG 320 (completed with a minimum grade of C- or better) or study abroad equivalent (F235 student group). (Prerequisites enforced at registration.) (3). May not be repeated for credit.

FRENCH 280. Conversation Through French and Francophone Film

FRENCH 235 or RCLANG 320 (completed with a minimum grade of C- or better); or study abroad equivalent (F235 student group). (Prerequisites enforced at registration.) (3). (HU). May not be repeated for credit.

FRENCH 281. Internship in France or Other Francophone Countries

FRENCH 235 and one course in FRENCH numbered 250-299 or FRENCH 235 and one RCLANG 320 (if no FRENCH course numbered 250-299 or RCLANG 320 has been taken, simultaneous enrollment with FRENCH 281 is allowed). (Prerequisites enforced at registration.) (3). (EXPERIENTIAL). May not be repeated for credit.

FRENCH 333. French Phonetics

FRENCH 235 or RCLANG 320 and two courses in FRENCH numbered 250-299; or two courses in RCLANG 320 and one course in FRENCH numbered 250-299. (Prerequisites enforced at registration.) (3). May not be repeated for credit.

FRENCH 335. Composition and Stylistics

FRENCH 235 or RCLANG 320 and two courses in FRENCH numbered 250-299; or two courses in RCLANG 320 and one course in FRENCH numbered 250-299. (Prerequisites enforced at registration.) (3). May not be repeated for credit.

FRENCH 336. Introduction to French Linguistics

FRENCH 235 or RCLANG 320 and two courses in FRENCH numbered 250-299; or two courses in RCLANG 320 and one course in FRENCH numbered 250-299. (Prerequisites enforced at registration.) (3). May not be repeated for credit.

FRENCH 337. Seminar in Translation

FRENCH 235 or RCLANG 320 and two courses in FRENCH numbered 250-299; or two courses in RCLANG 320 and one course in FRENCH numbered 250-299. (Prerequisites enforced at registration.) (3). May not be repeated for credit.

FRENCH 345 / HISTORY 314. Empire, War, and Modernity: France and the World in the 20th Century

(4; 3 in the half-term). (SS). May not be repeated for credit.

FRENCH 346 / HISTART 370. Realism and Impressionism

(4). (HU). May not be repeated for credit.

FRENCH 347 / JUDAIC 340 / MENAS 341 / MIDEAST 313. Colonialism in North Africa: 1800-Present

(3). (HU). May not be repeated for credit.

FRENCH 350. Special Topics in French and Francophone Studies

FRENCH 235 or RCLANG 320 and two courses in FRENCH numbered 250-299; or two courses in RCLANG 320 and one course in FRENCH numbered 250-299. (Prerequisites enforced at registration.) (3). (HU). May be repeated for a maximum of 12 credits. May be elected more than once in the same term.

FRENCH 355. Contemporary France: Politics, Culture, and Society

FRENCH 235 or RCLANG 320 and two courses in FRENCH numbered 250-299; or two courses in RCLANG 320 and one course in FRENCH

numbered 250-299. (Prerequisites enforced at registration.) (3; 2 in the half-term). (HU). May be repeated for a maximum of 6 credits.

FRENCH 360. French Asia Pacific

FRENCH 235 or RCLANG 320 and two courses in FRENCH numbered 250-299; or two courses in RCLANG 320 and one course in FRENCH numbered 250-299. (Prerequisites enforced at registration.) (3). May be repeated for a maximum of 6 credits. May be elected more than once in the same term.

FRENCH 363. Caribbean Studies

FRENCH 235 or RCLANG 320 and two courses in FRENCH numbered 250-299; or two courses in RCLANG 320 and one course in FRENCH numbered 250-299. (Prerequisites enforced at registration.) (3). May be elected twice for credit.

FRENCH 369. Literature, History, and Culture of Modernity

FRENCH 235 or RCLANG 320 and two courses in FRENCH numbered 250-299; or two courses in RCLANG 320 and one course in FRENCH numbered 250-299. (Prerequisites enforced at registration.) (3). (HU). May be elected twice for credit.

FRENCH 372. Film and Cinema Studies

FRENCH 235 or RCLANG 320 and two courses in FRENCH numbered 250-299; or two courses in RCLANG 320 and one course in FRENCH numbered 250-299. (Prerequisites enforced at registration.) (3). May not be repeated for credit.

FRENCH 374. Problems in Society and Social Theory

FRENCH 235 or RCLANG 320 and two courses in FRENCH numbered 250-299; or two courses in RCLANG 320 and one course in FRENCH numbered 250-299. (Prerequisites enforced at registration.) (3). May be elected twice for credit.

FRENCH 380. Intermediate Business French

FRENCH 235 or RCLANG 320 and two courses in FRENCH numbered 250-299; or two courses in RCLANG 320 and one course in FRENCH numbered 250-299. (Prerequisites enforced at registration.) (3). May not be repeated for credit. No credit granted to those who have completed or are enrolled in FRENCH 414. A maximum of nine credits from FRENCH 380, 381, and 414 as well as any of their equivalents accepted as transfer and/or study abroad credit can count toward the concentration or academic minor.

FRENCH 381. Internship in France or Other Francophone Countries

FRENCH 235 or RCLANG 320, and one course in French numbered FRENCH 250 through 299 or a second RCLANG 320; or study abroad equivalent. (Prerequisites enforced at registration.) FRENCH 380. (3). (EXPERIENTIAL). May be repeated for a maximum of 9 credits. May be elected more than once in the same term. A maximum of nine credits from FRENCH 380, 381, and 414 as well as any of their equivalents accepted as transfer and/or study abroad credit can count toward the concentration or academic minor.

FRENCH 399. Independent Study

Two courses in FRENCH numbered 250-299; or FRENCH 235 and two RCLANG 320; or FRENCH 235, one course in FRENCH numbered 250-299, and one RCLANG 320. (Prerequisites enforced at registration.) (1 - 3). (INDEPENDENT). May not be repeated for credit.

FRENCH 444. Readings in French and Francophone Studies (in English Translation)

One course in FRENCH numbered 240 or above. (Prerequisites enforced at registration.) (3). May not be repeated for credit. Taught in English.

FRENCH 491. Senior Honors Course

Seniors, with permission of the Honors Advisor. (3). (INDEPENDENT). May not be repeated for credit. Continuing Course. Y grade can be reported at end of the first-term to indicate work in progress. At the end of the second term of FRENCH 492, the final grade is posted for both term's elections.

FRENCH 492. Senior Honors Course

Senior standing. (Prerequisites enforced at registration.) FRENCH 491. (3). (INDEPENDENT). May not be repeated for credit.

Courses In Italian (ITALIAN)

ITALIAN 101. Elementary Italian

No prior instruction in Italian language OR placement of ITALIAN 101. [No previous ITALIAN coursework, excluding ITALIAN 240, 250, 310, 311, 312, 313, 314, 315, 316, 317, 333, 358, 359, 415, 419] OR [By assignment of ITALIAN 100 or 101 by Placement Exam (Student Group IT01 or Placement score 01)]. (Prerequisites enforced at registration.) Students with any prior study of Italian must take the Placement Test. (4). May not be repeated for credit. No credit granted to those who are enrolled in have completed or are enrolled in ITALIAN 100, 103, or 113.

ITALIAN 102. Elementary Italian

ITALIAN 101 (completed with a minimum grade of C- or better). College or university transfer students with any prior study of Italian must take the Placement Test. Only the placement score and not language coursework completed at a previous school will determine placement. (Prerequisites enforced at registration.) ITALIAN 102 is NOT open to students who have begun instruction at the high school level. College or university transfer students who have received credit for one term must take the placement test to determine the appropriate course for their needs. (4). May not be repeated for credit. No credit granted to those who have completed or are enrolled in ITALIAN 100 or 103.

ITALIAN 230. Second-Year Italian

ITALIAN 100 or 102 or 103 (completed with a minimum grade of C- or better); or assignment of ITALIAN 231 on placement test. College or university transfer students with any prior study of Italian must take the Placement Test. Only the placement score and not language coursework completed at a previous school will determine placement. (Prerequisites enforced at registration.) (8). (Lang Req). May not be repeated for credit. No credit granted to those who are enrolled in or have completed ITALIAN 113, 231, 232 or 233.

ITALIAN 231. Second-Year Italian

ITALIAN 100 or 102 or 103, (completed with a minimum grade of C- or better); or assignment by placement test. College or university transfer students with any prior study of Italian must take the Placement Test. Only the placement score and not language coursework completed at a previous school will determine placement. (Prerequisites enforced at registration.) (4). May not be repeated for credit. No credit granted to those who are enrolled or have completed ITALIAN 113, 230 or 233.

ITALIAN 232. Second-Year Italian, Continued

ITALIAN 231 (completed with a minimum grade of C- or better); or assignment by placement test. College or university transfer students with any prior study of Italian must take the Placement Test. Only the placement score and not language coursework completed at a previous school will determine placement. (Prerequisites enforced at registration.) (4). (Lang Req). May not be repeated for credit. No credit granted to those who are enrolled in or have completed ITALIAN 113, 230 or 233.

ITALIAN 235. Advanced Practice in Italian I

ITALIAN 230, 232, 233, or 410. (3). May not be repeated for credit. Course is conducted in Italian.

ITALIAN 240 / AMCULT 280. Italian Mafia

(4). (HU). (R&E). May not be repeated for credit. Taught in English.

ITALIAN 250. Undergraduate Seminar in Italian Studies

Enrollment restricted to first- and second- year students. No knowledge of Italian language required. (3). (HU). May not be repeated for credit.

ITALIAN 270. Language in Action I

ITALIAN 230, 232, 233, or 410. (3). (HU). May be elected three times for credit. May be elected more than once in the same term.

ITALIAN 275. Multimedia Language and Culture I

ITALIAN 230, 232, 233, or 410. (3). May be elected twice for credit. Taught in Italian.

ITALIAN 300. Advanced Composition and Conversation

ITALIAN 230, 232, 233, or 410. (3). May not be repeated for credit. The class is taught in Italian.

ITALIAN 310. Italian Cities

A knowledge of Italian is not required. (3). (HU). May not be repeated for credit. Taught in English.

ITALIAN 314 / HISTORY 326. Modern Italy: 1815 to Present

(3). (HU). May not be repeated for credit.

ITALIAN 316 / FTVM 316. Screening Italian-Americans

(3). (R&E). May not be repeated for credit.

ITALIAN 320. Modern Italian Studies

ITALIAN 230, 232, 233, or 410. (3). May be elected twice for credit.

ITALIAN 333 / MEMS 333. Dante's Divine Comedy

A knowledge of Italian is not required. (3). (HU). May not be repeated for credit. Taught in English.

ITALIAN 340. Contemporary Italian Culture

ITALIAN 230, 232, 233, or 410. (3). (HU). May not be repeated for credit.

ITALIAN 346. Italian Internship

ITALIAN 230, 232, 233, or 410; and an offer of an internship in an Italian-speaking country. (3). (EXPERIENTIAL). May not be repeated for credit.

ITALIAN 358. Italian Cinema

(3). (HU). May not be repeated for credit. No credit granted to those who have completed or enrolled in SAC 358.

ITALIAN 359. Italian Culture and History

A knowledge of Italian is not required. (3). (HU). May be repeated for a maximum of 9 credits. Taught in English.

ITALIAN 374. Topics in Italian Studies

ITALIAN 230, 232, 233, or 410. (3; 2 in the half-term). (HU). May be repeated for a maximum of 6 credits.

ITALIAN 399. Directed Reading

Consent of instructor required. Permission of department. (1 - 3). (INDEPENDENT). May be repeated for credit.

ITALIAN 410. Italian for Spanish Speakers

SPANISH 275 and 276; or SPANISH 277. (3). May not be repeated for credit. No credit granted for students who have completed ITALIAN 100, 101, 102, 103, 113, 230, 231, 232, or 233. Conducted in Italian. Students who have completed or are enrolled in a second-year Italian course (ITALIAN 231, 232 or 233) should not take this course, because it is not an appropriate match to the skills they have already mastered. ITALIAN 410 does not count toward the Italian major or minor requirements. ITALIAN 410 counts as a 400-level elective toward the Spanish major or minor. Students may count only one of ITALIAN 410 or PORTUG 280 toward the Spanish major or minor.

ITALIAN 415. Topics in Italian Studies

(3). May be repeated for a maximum of 9 credits. May be elected more than once in the same term. Taught in English. Rackham credit requires additional work.

ITALIAN 422. Politics and Literature

(3). May not be repeated for credit.

ITALIAN 430. Twentieth Century Italy

ITALIAN 230, 232, or 233. (3). May be elected twice for credit. Students may not repeat ITALIAN 430 with the same topic ID for credit.

ITALIAN 499. Advanced Independent Study

ITALIAN 230, 232, or 233. (1 - 3). (INDEPENDENT). May be repeated for a maximum of 9 credits.

Courses In Portuguese (PORTUG)

PORTUG 101. Elementary Portuguese

(4). May not be repeated for credit. No credit granted to those who have completed or are enrolled in PORTUG 100 or 415.

PORTUG 102. Elementary Portuguese

PORTUG 101 completed with a minimum grade of C- or better. (Prerequisites enforced at registration.) Students who have not taken PORTUG 101 at UM must schedule a placement exam with the instructor. (4). May not be repeated for credit. No credit granted to those who have completed or are enrolled in PORTUG 100 or 415.

PORTUG 231. Second-Year Portuguese

PORTUG 102, completed with a minimum grade of C- or better. (Prerequisites enforced at registration.) Students who have not taken PORTUG 102 at UM must schedule a placement exam with the instructor. (4). May not be repeated for credit. No credit granted to those who have completed or are enrolled in PORTUG 230.

PORTUG 232. Second-Year Portuguese

PORTUG 231 (C- or better) or PORTUG 415 (C- or better). (Prerequisites enforced at registration.) Students who have not taken PORTUG 231 at UM must schedule a placement exam with the instructor. (4). (Lang Req). May not be repeated for credit. No credit granted to those who have completed or are enrolled in PORTUG 230.

PORTUG 280. Portuguese for Speakers of Romance Languages I

One of: SPANISH 277 or 278; or RCLANG 324; or FRENCH 235; or ITALIAN 230, 232, or 233. Valid prerequisite options also include the following study abroad equivalents (registration student groups): SP27 (completed SPANISH 277 abroad) and F235 (completed FRENCH 235 abroad) as well. (Prerequisites enforced at registration.) (3). May not be repeated for credit. No credit granted to those who have completed or are enrolled in PORTUG 100, 101, or 102.

PORTUG 281. Portuguese for Speakers of Romance Languages II

PORTUG 280. (Prerequisites enforced at registration.) (3). May not be repeated for credit.

PORTUG 287. Advanced Portuguese Conversation and Composition

PORTUG 232 or 280 or 415. (Prerequisites enforced at registration.) (3). May not be repeated for credit.

PORTUG 290. Conversation through Film and Popular Music

PORTUG 232, PORTUG 280, or PORTUG 415; or equivalent (POR4 student group). (Prerequisites enforced at registration.) (3). May not be repeated for credit.

PORTUG 301. Topics in Afro-Luso-Brazilian Cultures

PORTUG 232 or PORTUG 280 or equivalent to prove advanced proficiency in the Portuguese language. (3). May be repeated for a maximum of 9 credits. May be elected more than once in the same term.

PORTUG 342. Culture, Power, and Politics in Brazil

PORTUG 232 or 280 or equivalent to prove advanced proficiency in the Portuguese language. (3). May be repeated for a maximum of 6 credits.

PORTUG 350. Independent Study

Consent of instructor required. PORTUG 232. (1 - 3). (INDEPENDENT). May be repeated for a maximum of 6 credits.

PORTUG 461. Brazilian Culture

PORTUG 287 or its equivalent to prove advanced proficiency in the Portuguese language. (3). May not be repeated for credit.

PORTUG 474. Advanced Topics in Afro-Luso-Brazilian Cultures

PORTUG 287 or its equivalent to prove advanced proficiency in Portuguese. (3). May be repeated for a maximum of 6 credits. May be elected more than once in the same term.

Courses In Romance Languages and Literatures (ROMLANG)

ROMLANG 250. Special Topics in Humanities

(3). (HU). May be repeated for a maximum of 6 credits.

ROMLANG 400. Topics in Romance Languages and Literature

(1 - 4). May be elected twice for credit. Course may be taught in a Romance language. Rackham credit requires additional work.

ROMLANG 491. Senior Honors Course

Seniors, with permission of the Honors Advisor. (3). (INDEPENDENT). May not be repeated for credit.

ROMLANG 492. Senior Honors Course

Consent of department required. ROMLANG 491. (3). (INDEPENDENT). May not be repeated for credit.

ROMLANG 498. Senior Seminar in Romance Languages and Literatures

RLL concentrators and senior standing. (Prerequisites enforced at registration.) (3). May not be repeated for credit. Rackham credit requires additional work.

Courses In Romance Linguistics (ROMLING)

ROMLING 298 / LING 398 / SPANISH 298. Introduction to Spanish Linguistics

SPANISH 277; or SPANISH 278 or AMCULT 224 or LATINOAM 224; or RCLANG 324; or study abroad equivalent (SP27 student group). (Prerequisites enforced at registration.) (3). May not be repeated for credit.

ROMLING 333 / SPANISH 333. Techniques of Pronunciation and Oral Expression

SPANISH 277; or SPANISH 278 or AMCULT 224 or LATINOAM 224; or RCLANG 324; or study abroad equivalent (SP27 student group). (Prerequisites enforced at registration.) (3). May not be repeated for credit.

ROMLING 410 / SPANISH 410. Spanish Phonetics and Phonology

[SPANISH/ROMLING 298, or SPANISH 333, or LING 210 and (six additional credits from SPANISH 279 through 399, or 300-level study abroad equivalent)] OR [SPANISH/ROMLING 298, or SPANISH 333, or LING 210 and two courses of RCLANG 324 and (three additional credits from SPANISH 279 through 399, or 300-level study abroad equivalent)]. (Prerequisites enforced at registration.) (3). May not be repeated for credit.

ROMLING 411 / SPANISH 411. Advanced Syntax

[SPANISH/ROMLING 298 or LING 210 and (six additional credits from SPANISH 279 through 399, or 300-level study abroad equivalent)] OR [SPANISH/ROMLING 298 or LING 210 and two courses of RCLANG 324 and (three additional credits from SPANISH 279 through 399, or 300-level study abroad equivalent)]. (Prerequisites enforced at registration.) (3). May not be repeated for credit.

ROMLING 413 / EDCURINS 455 / SPANISH 413. Teaching Spanish/Applications of Linguistics

Nine credits chosen between SPANISH 279 and 399; or two RCLANG 324 and six credits chosen between SPANISH 279 and 399. (Prerequisites enforced at registration.) One of: SPANISH 298, ROMLING 298, LING 210. (3). May not be repeated for credit.

ROMLING 415 / SPANISH 415. Problems in Language Translation

Nine credits chosen between SPANISH 279 and 399; or two RCLANG 324 and six credits chosen between SPANISH 279 and 399. (Prerequisites enforced at registration.) One of: SPANISH 298, ROMLING 298, SPANISH 289 or LING 210 AND six credits of 300 level Spanish. (3). May not be repeated for credit.

ROMLING 416 / SPANISH 416. Spanish Sociolinguistics

Nine credits chosen between SPANISH 279 and 399; or two RCLANG 324 and six credits chosen between SPANISH 279 and 399. (Prerequisites enforced at registration.) One of SPANISH 298, ROMLING 298, LING 210. (3). May not be repeated for credit. Rackham credit requires additional work.

ROMLING 487 / SPANISH 487. Studies in Hispanic Linguistics

Nine credits chosen between SPANISH 279 and 399; or two RCLANG 324 and six credits chosen between SPANISH 279 and 399. (Prerequisites enforced at registration.) SPANISH 298, ROMLING 298, or LING 210. (3). May be repeated for a maximum of 9 credits. May be elected more than once in the same term. Rackham credit requires additional work.

Courses In Spanish (SPANISH)

SPANISH 100. Intensive Elementary Spanish

No prior instruction in Spanish language OR placement of SPANISH 101. (Prerequisites enforced at registration.) Students with any prior study

of Spanish must take the Placement Test. (8 in the half-term). May not be repeated for credit. No credit granted to those who are enrolled in or have completed SPANISH 101, 102, 103, 113, or RCLANG 194. This course does not meet the threshold for proficiency for the Residential College.

SPANISH 101. Elementary Spanish

No prior Spanish language or placement of SPANISH 101. (Prerequisites enforced at registration.) Students with any prior study of Spanish must take the Placement Test. (4). May not be repeated for credit. No credit granted to those who are enrolled in or have completed or are enrolled in SPANISH 100, 113, or RCLANG 194.

SPANISH 102. Elementary Spanish

SPANISH 101 with a minimum grade of C- or better. (Prerequisites enforced at registration.) (4). May not be repeated for credit. No credit granted to those who are enrolled in or have completed SPANISH 100, 103, 113, or RCLANG 194.

SPANISH 103. Review of Elementary Spanish

Assignment of SPANISH 103 by placement test; or RCLANG 154. College or university transfer students with any prior study of Spanish must take the Placement Test. (Prerequisites enforced at registration.) Only placement score and not language coursework completed at a previous school will determine placement. (4). May not be repeated for credit. No credit granted to those who are enrolled in or have completed SPANISH 100, 102, 113, or RCLANG 194.

SPANISH 230. Intensive Second-Year Spanish

SPANISH 100, 102 or 103 with a grade of C- or higher; or RCLANG 194; or assignment of SPANISH 231 by placement test. College or university transfer students with any prior study of Spanish must take the Placement Test. Only the placement score and not language coursework completed at a previous school will determine placement. (Prerequisites enforced at registration.) (8 in the half-term). (Lang Req). May not be repeated for credit. No credit granted to those who are enrolled in or have completed SPANISH 113, 231, 232, or RCLANG 294 or 314. This course does not meet the threshold for proficiency for the Residential College.

SPANISH 231. Second-Year Spanish

SPANISH 100, 102 or 103 with a grade of C- or higher; or RCLANG 194; or assignment of SPANISH 231 by placement test. College or university transfer students with any prior study of Spanish must take the Placement Test. Only the placement score and not language coursework completed at a previous school will determine placement. (Prerequisites enforced at registration.) (4). May not be repeated for credit. No credit granted to those who are enrolled in or have completed SPANISH 113, 230, or RCLANG 294 or 314.

SPANISH 232. Second-Year Spanish, Continued

SPANISH 231 with a minimum grade of C- or better, or RCLANG 254; or assignment by Placement Test. College or university transfer students with any prior study of Spanish must take the Placement Test. (Prerequisites enforced at registration.) Only placement score and not language coursework completed at a previous school will determine placement. (4). (Lang Req). May not be repeated for credit. No credit granted to those who are enrolled in or have completed SPANISH 113 or 230; or RCLANG 294 or 314.

SPANISH 277. Spanish in Context: Advancing Your Proficiency

SPANISH 230 or 232 with a grade of C- or higher; RCLANG 294 or 314; or assignment of SPANISH 277 by placement test; or SPANISH 274x or Spanish 279x AP or IB test credit. (Prerequisites enforced at registration.) Students who receive transfer credit for SPANISH 232 and wish to continue with their language study are strongly encouraged to take the Spanish placement exam to be certain that they are prepared for SPANISH 277. (3). May not be repeated for credit. No credit for students who have completed SPANISH 278/AMCULT 224/LATINOAM 224. SPANISH 277 is the prerequisite for a minor or major in Spanish.

SPANISH 278 / AMCULT 224 / LATINOAM 224. Spanish for Heritage Language Learners

Placement of SPANISH 277/278 or equivalent. (3). (Lang Req). May not be repeated for credit. No credit granted to students who have completed SPANISH 277. This course satisfies the prerequisite for the Spanish major or minor, but does not count toward the required courses to complete a Spanish major or minor.

SPANISH 280. Conversation Through Spanish/Latin American Film

SPANISH 277; or SPANISH 278 or AMCULT 224 or LATINOAM 224; or RCLANG 324; or study abroad equivalent (SP27 student group). (Prerequisites enforced at registration.) (3). (HU). May not be repeated for credit.

SPANISH 283. Spanish for the Professions

SPANISH 277; or SPANISH 278 or AMCULT 224 or LATINOAM 224; or RCLANG 324; or study abroad equivalent (SP27 student group). (Prerequisites enforced at registration.) (3). May not be repeated for credit.

SPANISH 287. Written Expression: Achieving Competence

SPANISH 277; or SPANISH 278 or AMCULT 224 or LATINOAM 224; or RCLANG 324; or study abroad equivalent (SP27 student group). (Prerequisites enforced at registration.) (3). May not be repeated for credit. Conducted in Spanish.

SPANISH 289. Introduction to Translation

SPANISH 277; or SPANISH 278 or AMCULT 224 or LATINOAM 224; or RCLANG 324; or study abroad equivalent (SP27 student group). (Prerequisites enforced at registration.) (3). May not be repeated for credit.

SPANISH 291 / CATALAN 291. Introduction to Catalan Language and Culture

SPANISH 277; or SPANISH 278 or AMCULT 224 or LATINOAM 224; or RCLANG 324; or study abroad equivalent (SP27 student group). (Prerequisites enforced at registration.) (3). May not be repeated for credit.

SPANISH 295. Introduction to Literature, Culture, and the Arts in the Hispanic World

SPANISH 277; or SPANISH 278 or AMCULT 224 or LATINOAM 224; or RCLANG 324; or study abroad equivalent (SP27 student group). (Prerequisites enforced at registration.) (3). (HU). May not be repeated for credit.

SPANISH 296. Special Topics in Hispanic Literatures and Cultures

SPANISH 277; or SPANISH 278 or AMCULT 224 or LATINOAM 224; or RCLANG 324; or study abroad equivalent (SP27 student group). (Prerequisites enforced at registration.) (3). (HU). May not be repeated for credit.

SPANISH 298 / LING 398 / ROMLING 298. Introduction to Spanish Linguistics

SPANISH 277; or SPANISH 278 or AMCULT 224 or LATINOAM 224; or RCLANG 324; or study abroad equivalent (SP27 student group). (Prerequisites enforced at registration.) (3). May not be repeated for credit.

SPANISH 299. Introductory Internship

SPANISH 277; or SPANISH 278 or AMCULT 224 or LATINOAM 224; or RCLANG 324; or study abroad equivalent (SP27 student group). (Prerequisites enforced at registration.) (3). (EXPERIENTIAL). May not be repeated for credit. Credit can be earned for no more than one independent study and one internship without the approval of the Spanish Undergraduate Curriculum Committee.

SPANISH 313. Contemporary Issues in Spain

SPANISH 277; or SPANISH 278 or AMCULT 224 or LATINOAM 224; or RCLANG 324; or study abroad equivalent (SP27 student group). (Prerequisites enforced at registration.) (3). May not be repeated for credit.

SPANISH 314. Contemporary Issues in Mexico and Central America
SPANISH 277; or SPANISH 278 or AMCULT 224 or LATINOAM 224; or RCLANG 324; or study abroad equivalent (SP27 student group). (Prerequisites enforced at registration.) (3). May not be repeated for credit.

SPANISH 315. Contemporary Issues in the Caribbean and South America
SPANISH 277; or SPANISH 278 or AMCULT 224 or LATINOAM 224; or RCLANG 324; or study abroad equivalent (SP27 student group). (Prerequisites enforced at registration.) (3). May not be repeated for credit.

SPANISH 328. Studies in Hispanic Popular Culture
SPANISH 277; or SPANISH 278 or AMCULT 224 or LATINOAM 224; or RCLANG 324; or study abroad equivalent (SP27 student group). (Prerequisites enforced at registration.) (3). May be repeated for a maximum of 6 credits. May be elected more than once in the same term.

SPANISH 332. Short Narrative in Latin America/Spain
SPANISH 277; or SPANISH 278 or AMCULT 224 or LATINOAM 224; or RCLANG 324; or study abroad equivalent (SP27 student group). (Prerequisites enforced at registration.) (3). (HU). May be repeated for a maximum of 6 credits. May be elected more than once in the same term.

SPANISH 333 / ROMLING 333. Techniques of Pronunciation and Oral Expression
SPANISH 277; or SPANISH 278 or AMCULT 224 or LATINOAM 224; or RCLANG 324; or study abroad equivalent (SP27 student group). (Prerequisites enforced at registration.) (3). May not be repeated for credit.

SPANISH 337. Poetry Workshop
SPANISH 277; or SPANISH 278 or AMCULT 224 or LATINOAM 224; or RCLANG 324; or study abroad equivalent (SP27 student group). (Prerequisites enforced at registration.) (3). May be repeated for a maximum of 6 credits. May be elected more than once in the same term.

SPANISH 341. Introduction to Pre-Columbian/Colonial/Modern Latin-American Culture
SPANISH 277; or SPANISH 278 or AMCULT 224 or LATINOAM 224; or RCLANG 324; or study abroad equivalent (SP27 student group). (Prerequisites enforced at registration.) (3). May not be repeated for credit.

SPANISH 342. Introduction to Contemporary Latin American Culture
SPANISH 277; or SPANISH 278 or AMCULT 224 or LATINOAM 224; or RCLANG 324; or study abroad equivalent (SP27 student group). (Prerequisites enforced at registration.) (3). May be repeated for a maximum of 6 credits. May be elected more than once in the same term.

SPANISH 350. Independent Studies
Consent of instructor required. Permission of concentration advisor. Application required. (1 - 3). (INDEPENDENT). May not be repeated for credit. Credit can be earned for no more than one independent study and one internship without the approval of the Spanish Undergraduate Curriculum Committee. Independent studies of fewer than three credits will not count toward the Spanish major requirements.

SPANISH 368. Literature and the Other Arts
SPANISH 277; or SPANISH 278 or AMCULT 224 or LATINOAM 224; or RCLANG 324; or study abroad equivalent (SP27 student group). (Prerequisites enforced at registration.) (3). (HU). May be repeated for a maximum of 6 credits. May be elected more than once in the same term.

SPANISH 369. Introduction to Film/Media Theory and Criticism
SPANISH 277; or SPANISH 278 or AMCULT 224 or LATINOAM 224; or RCLANG 324; or study abroad equivalent (SP27 student group). (Prerequisites enforced at registration.) (3). May not be repeated for credit.

SPANISH 371. Survey of Spanish Literature, I
SPANISH 277; or SPANISH 278 or AMCULT 224 or LATINOAM 224; or RCLANG 324; or study abroad equivalent (SP27 student group). (Prerequisites enforced at registration.) (3). (HU). May not be repeated for credit. Conducted in Spanish.

SPANISH 373. Topics in Hispanic Studies
SPANISH 277; or SPANISH 278 or AMCULT 224 or LATINOAM 224; or RCLANG 324; or study abroad equivalent (SP27 student group). (Prerequisites enforced at registration.) (3). (HU). May be repeated for a maximum of 6 credits. May be elected more than once in the same term.

SPANISH 381. Survey of Latin American Literature, I
SPANISH 277; or SPANISH 278 or AMCULT 224 or LATINOAM 224; or RCLANG 324; or study abroad equivalent (SP27 student group). (Prerequisites enforced at registration.) (3). (HU). May not be repeated for credit.

SPANISH 385. Race and Ethnicity in the Hispanic World
SPANISH 277; or SPANISH 278 or AMCULT 224 or LATINOAM 224; or RCLANG 324; or study abroad equivalent (SP27 student group). (Prerequisites enforced at registration.) (3). May be repeated for a maximum of 6 credits. May be elected more than once in the same term.

SPANISH 405 / CATALAN 405. Advanced Catalan Language, Culture, and Society
CATALAN 291/SPANISH 291. (Prerequisites enforced at registration.) (3). May not be repeated for credit. Rackham credit requires additional work.

SPANISH 410 / ROMLING 410. Spanish Phonetics and Phonology
[SPANISH/ROMLING 298, or SPANISH 333, or LING 210 and (six additional credits from SPANISH 279 through 399, or 300-level study abroad equivalent)] OR [SPANISH/ROMLING 298, or SPANISH 333, or LING 210 and two courses of RCLANG 324 and (three additional credits from SPANISH 279 through 399, or 300-level study abroad equivalent)]. (Prerequisites enforced at registration.) (3). May not be repeated for credit.

SPANISH 411 / ROMLING 411. Advanced Syntax
[SPANISH/ROMLING 298 or LING 210 and (six additional credits from SPANISH 279 through 399, or 300-level study abroad equivalent)] OR [SPANISH/ROMLING 298 or LING 210 and two courses of RCLANG 324 and (three additional credits from SPANISH 279 through 399, or 300-level study abroad equivalent)]. (Prerequisites enforced at registration.) (3). May not be repeated for credit.

SPANISH 413 / EDCURINS 455 / ROMLING 413. Teaching Spanish/Applications of Linguistics
Nine credits chosen between SPANISH 279 and 399; or two RCLANG 324 and six credits chosen between SPANISH 279 and 399. (Prerequisites enforced at registration.) One of: SPANISH 298, ROMLING 298, LING 210. (3). May not be repeated for credit.

SPANISH 415 / ROMLING 415. Problems in Language Translation
Nine credits chosen between SPANISH 279 and 399; or two RCLANG 324 and six credits chosen between SPANISH 279 and 399. (Prerequisites enforced at registration.) One of: SPANISH 298, ROMLING 298, SPANISH 289 or LING 210 AND six credits of 300 level Spanish. (3). May not be repeated for credit.

SPANISH 416 / ROMLING 416. Spanish Sociolinguistics
Nine credits chosen between SPANISH 279 and 399; or two RCLANG 324 and six credits chosen between SPANISH 279 and 399. (Prerequisites enforced at registration.) One of SPANISH 298, ROMLING 298, LING 210. (3). May not be repeated for credit. Rackham credit requires

additional work.

SPANISH 420. Latin American and Latino/a Film Studies

Nine credits chosen from: SPANISH 279 and 399 or two RCLANG 324; and six credits chosen from SPANISH 279 and 399. (Prerequisites enforced at registration.) (3). May be repeated for a maximum of 6 credits. May be elected more than once in the same term. Rackham credit requires additional work.

SPANISH 421. Cinema From Spain

Nine credits chosen between SPANISH 279 and 399; or two RCLANG 324 and six credits chosen between SPANISH 279 and 399. (Prerequisites enforced at registration.) (3). May be repeated for a maximum of 6 credits. May be elected more than once in the same term. Rackham credit requires additional work.

SPANISH 423. Visual Cultures in the Hispanic World

Nine credits chosen between SPANISH 279 and 399; or two RCLANG 324 and six credits chosen between SPANISH 279 and 399. (Prerequisites enforced at registration.) (3). May be repeated for a maximum of 6 credits. May be elected more than once in the same term.

SPANISH 424. Film, Gender and Sexuality in the Hispanic Tradition

Nine credits chosen between SPANISH 279 and 399; or two RCLANG 324 and six credits chosen between SPANISH 279 and 399. [note: we also need this course to recognize the SP30 student group as a valid prerequisite for students who have satisfied the prerequisite abroad.] (Prerequisites enforced at registration.) (3). May be repeated for a maximum of 6 credits. May be elected more than once in the same term. Rackham credit requires additional work.

SPANISH 425. Latin American/Spanish Theater

Nine credits chosen between SPANISH 279 and 399; or two RCLANG 324 and six credits chosen between SPANISH 279 and 399. (Prerequisites enforced at registration.) (3). May not be repeated for credit.

SPANISH 426. Film Genres in the Hispanic World

Nine credits chosen between SPANISH 279 and 399; or two RCLANG 324 and six credits chosen between SPANISH 279 and 399. (Prerequisites enforced at registration.) (3). May be repeated for a maximum of 6 credits. May be elected more than once in the same term.

SPANISH 427. Cine de autor: The Hispanic auteurism tradition

Nine credits chosen between SPANISH 279 and 399; or two RCLANG 324 and six credits chosen between SPANISH 279 and 399. [note: we also need this course to recognize the SP30 student group as a valid prerequisite for students who have satisfied the prerequisite abroad.] (Prerequisites enforced at registration.) (3). May be repeated for a maximum of 6 credits. May be elected more than once in the same term. Rackham credit requires additional work.

SPANISH 428. Internship in Spanish

Nine credits chosen between SPANISH 279 and 399; or two RCLANG 324 and six credits chosen between SPANISH 279 and 399. (Prerequisites enforced at registration.) (3). (EXPERIENTIAL). May not be repeated for credit. Credit can be earned for no more than one independent study and one internship without the approval of the Spanish Undergraduate Curriculum Committee.

SPANISH 430. Advanced Studies in Hispanic Culture and Society

Nine credits chosen between SPANISH 279 and 399; or two RCLANG 324 and six credits chosen between SPANISH 279 and 399. (Prerequisites enforced at registration.) (3). May be repeated for a maximum of 6 credits. May be elected more than once in the same term.

SPANISH 432 / WGS 462. Gender, Sexuality, and Culture

Nine credits chosen between SPANISH 279 and 399; or two RCLANG 324 and six credits chosen between SPANISH 279 and 399. (Prerequisites enforced at registration.) (3). May be repeated for a maximum of 6 credits. May be elected more than once in the same term.

SPANISH 435. Independent Study

Nine credits chosen between SPANISH 279 and 399; or two RCLANG 324 and six credits chosen between SPANISH 279 and 399. (Prerequisites enforced at registration.) (1 - 3). (INDEPENDENT). May be repeated for a maximum of 3 credits. Credit can be earned for no more than one independent study and one internship without the approval of the Spanish Undergraduate Curriculum Committee. Independent studies of fewer than three credits will not count toward the Spanish major requirements.

SPANISH 438. Political and Economic Thought in Latin America/Spain

Nine credits chosen between SPANISH 279 and 399; or two RCLANG 324 and six credits chosen between SPANISH 279 and 399. (Prerequisites enforced at registration.) (3). May be repeated for a maximum of 6 credits. May be elected more than once in the same term.

SPANISH 439. Social Movements in Latin America/Spain

Nine credits chosen between SPANISH 279 and 399; or two RCLANG 324 and six credits chosen between SPANISH 279 and 399. (Prerequisites enforced at registration.) (3). May be repeated for a maximum of 6 credits. May be elected more than once in the same term.

SPANISH 440. Literatures and Cultures of the Borderlands: The Politics of Language

Nine credits chosen between SPANISH 279 and 399; or two RCLANG 324 and six credits chosen between SPANISH 279 and 399. (Prerequisites enforced at registration.) (3). May be repeated for a maximum of 6 credits. May be elected more than once in the same term. Conducted in Spanish.

SPANISH 441 / CATALAN 441. Topics in Catalan Literature and Culture

Nine credits chosen between SPANISH 279 and 399; or two RCLANG 324 and six credits chosen between SPANISH 279 and 399. (Prerequisites enforced at registration.) (3). May not be repeated for credit.

SPANISH 442. Historical Memory and Testimony

Nine credits chosen between SPANISH 279 and 399; or two RCLANG 324 and six credits chosen between SPANISH 279 and 399. (Prerequisites enforced at registration.) (3). May not be repeated for credit.

SPANISH 443. History and Historiography in Latin America/Spain

Nine credits chosen between SPANISH 279 and 399; or two RCLANG 324 and six credits chosen between SPANISH 279 and 399. (Prerequisites enforced at registration.) (3). May be repeated for a maximum of 6 credits. May be elected more than once in the same term.

SPANISH 444. Nations and Nationalisms in the Hispanic World

Nine credits chosen between SPANISH 279 and 399; or two RCLANG 324 and six credits chosen between SPANISH 279 and 399. (Prerequisites enforced at registration.) (3). May be repeated for a maximum of 6 credits. May be elected more than once in the same term.

SPANISH 445. Romance Studies: Introduction to French-Spanish Literary Relations

A reading knowledge of French and Spanish. (3). May not be repeated for credit.

SPANISH 453. Religion and Culture in the Hispanic World

Nine credits chosen between SPANISH 279 and 399; or two RCLANG 324 and six credits chosen between SPANISH 279 and 399. (Prerequisites enforced at registration.) (3). May not be repeated for credit.

SPANISH 459. Cervantes

Nine credits chosen between SPANISH 279 and 399; or two RCLANG 324 and six credits chosen between SPANISH 279 and 399. (Prerequisites enforced at registration.) (3). May be repeated for a maximum of 6 credits.

SPANISH 467. Literary and Artistic Movements in Latin America/Spain

Nine credits chosen between SPANISH 279 and 399; or two RCLANG 324 and six credits chosen between SPANISH 279 and 399. (Prerequisites enforced at registration.) (3). May be repeated for a maximum of 6 credits. May be elected more than once in the same term.

SPANISH 470. Colonial Latin America

Nine credits chosen between SPANISH 279 and 399; or two RCLANG 324 and six credits chosen between SPANISH 279 and 399. (Prerequisites enforced at registration.) (3). May be repeated for a maximum of 6 credits. May be elected more than once in the same term.

SPANISH 472. Indigenous Societies

Nine credits chosen between SPANISH 279 and 399; or two RCLANG 324 and six credits chosen between SPANISH 279 and 399. (Prerequisites enforced at registration.) (3). May be repeated for a maximum of 6 credits. May be elected more than once in the same term.

SPANISH 473. Colonial/Postcolonial Studies in Latin-American Cultures

Nine credits chosen between SPANISH 279 and 399; or two RCLANG 324 and six credits chosen between SPANISH 279 and 399. (Prerequisites enforced at registration.) (3). May be repeated for a maximum of 6 credits. May be elected more than once in the same term.

SPANISH 474. Cities and Spaces in the Hispanic World

Nine credits chosen between SPANISH 279 and 399; or two RCLANG 324 and six credits chosen between SPANISH 279 and 399. (Prerequisites enforced at registration.) (3). May be repeated for a maximum of 6 credits. May be elected more than once in the same term.

SPANISH 475. Latin American/Spanish Narrative

Nine credits chosen between SPANISH 279 and 399; or two RCLANG 324 and six credits chosen between SPANISH 279 and 399. (Prerequisites enforced at registration.) (3). May be repeated for a maximum of 6 credits. May be elected more than once in the same term. Taught in Spanish.

SPANISH 476. Latin-American Poetry

Nine credits chosen between SPANISH 279 and 399; or two RCLANG 324 and six credits chosen between SPANISH 279 and 399. (Prerequisites enforced at registration.) (3). May be repeated for a maximum of 6 credits. May be elected more than once in the same term. Taught in Spanish.

SPANISH 485. Case Studies in Peninsular Spanish and Latin American Literature

Nine credits chosen between SPANISH 279 and 399; or two RCLANG 324 and six credits chosen between SPANISH 279 and 399. (Prerequisites enforced at registration.) (3). May be repeated for a maximum of 6 credits. May be elected more than once in the same term.

SPANISH 487 / ROMLING 487. Studies in Hispanic Linguistics

Nine credits chosen between SPANISH 279 and 399; or two RCLANG 324 and six credits chosen between SPANISH 279 and 399. (Prerequisites enforced at registration.) SPANISH 298, ROMLING 298, or LING 210. (3). May be repeated for a maximum of 9 credits. May be elected more than once in the same term. Rackham credit requires additional work.

SPANISH 488. Topics in Hispanic Literature/History/Culture

Nine credits chosen between SPANISH 279 and 399; or two RCLANG 324's and six credits chosen between SPANISH 279 and 399. (Prerequisites enforced at registration.) (3). May be repeated for a maximum of 6 credits. May be elected more than once in the same term.

SPANISH 491. Senior Honors Course

Consent of instructor required. Seniors, with permission of the Honors Advisor. (3). May not be repeated for credit.

SPANISH 492. Senior Honors Course

Consent of instructor required. SPANISH 491. (3). (INDEPENDENT). May not be repeated for credit.

LSA Slavic Languages & Literatures**Courses In Bosnian, Croatian, and Serbian (BCS)****BCS 131. First-Year Bosnian/Croatian/Serbian I**

(4). May not be repeated for credit. May not be repeated for credit.

BCS 132. First-Year Bosnian/Croatian/Serbian II

BCS 131. (4). May not be repeated for credit. May not be repeated for credit.

BCS 231. Second-Year Bosnian/Croatian/Serbian I

BCS 132. (Prerequisites enforced at registration.) (4). May not be repeated for credit. May not be repeated for credit.

BCS 232. Second-Year Bosnian/Croatian/Serbian II

BCS 231. (Prerequisites enforced at registration.) (4). (Lang Req). May not be repeated for credit. May not be repeated for credit.

BCS 331. Third-Year Bosnian/Croatian/Serbian I

BCS 232. (Prerequisites enforced at registration.) (3). May not be repeated for credit.

BCS 332. Third-Year Bosnian/Croatian/Serbian II

BCS 331. (Prerequisites enforced at registration.) (3). May not be repeated for credit.

BCS 439. Directed Reading of Bosnian/Croatian/Serbian Literature

Consent of instructor required. (1 - 4). (INDEPENDENT). May be repeated for a maximum of 8 credits.

BCS 450. In No Man's Land: Walls, Migrations and Human Trafficking in the Balkans and Mediterranean

(3). May not be repeated for credit.

Courses In Czech (CZECH)**CZECH 141. First-Year Czech**

(4). May not be repeated for credit. May not be repeated by credit.

CZECH 142. First-Year Czech

CZECH 141. (Prerequisites enforced at registration.) (4). May not be repeated for credit. May not be repeated for credit.

CZECH 241. Second-Year Czech

CZECH 142 or 143. (4). May not be repeated for credit. May not be repeated for credit.

CZECH 242. Second-Year Czech

CZECH 241. (4). (Lang Req). May not be repeated for credit. May not be repeated for credit.

CZECH 315 / FTVM 315. The Czech New Wave and Its Legacy

(3). (HU). (R&E). May not be repeated for credit.

CZECH 480. Supervised Czech Reading

Consent of instructor required. (1 - 4). (INDEPENDENT). May be elected twice for credit.

Courses In Polish (POLISH)

POLISH 121. First-Year Polish

(4). May not be repeated for credit. May not be repeated for credit. No credit granted to those who have completed or are enrolled in POLISH 123. F.

POLISH 122. First-Year Polish

POLISH 121. (4). May not be repeated for credit. May not be repeated for credit. No credit granted to those who have completed or are enrolled in POLISH 123. W.

POLISH 214 / REEES 214. Rock Poetry and Political Protest in Poland

(3). (HU). May not be repeated for credit.

POLISH 221. Second-Year Polish

POLISH 122. (4). May not be repeated for credit. May not be repeated for credit. F.

POLISH 222. Second-Year Polish

POLISH 221. (4). (Lang Req). May not be repeated for credit. May not be repeated for credit. W.

POLISH 314 / FTVM 314. Polish Cinema

(3). (HU). May not be repeated for credit.

POLISH 321. Third-Year Polish

POLISH 222. (3). May not be repeated for credit. May not be repeated for credit. F.

POLISH 322. Third-Year Polish

POLISH 321. (3). May not be repeated for credit. May not be repeated for credit. W.

POLISH 326. Polish Literature in English: 1890 to Present

(3). (HU). May not be repeated for credit. No credit granted to those who have completed or are enrolled in POLISH 526.

POLISH 331 / HISTORY 331. Poland in the Modern World

(4; 3 in the half-term). (HU). (R&E). May not be repeated for credit.

POLISH 421. Fourth-Year Polish I

POLISH 322. (3). May not be repeated for credit. May not be repeated for credit.

POLISH 422. Fourth-Year Polish II

POLISH 421. (3). May not be repeated for credit. May not be repeated for credit.

POLISH 450. Directed Polish Reading

Consent of instructor required. POLISH 325 and/or 326 and reading knowledge of Polish. (1 - 4). (INDEPENDENT). May be repeated for a maximum of 8 credits.

POLISH 491. Senior Honors Course

Consent of instructor required. Approval of departmental Honors Committee. (3). May not be repeated for credit. Credit is granted for a combined total of six credits of POLISH 491 and 492. Continuing Course. Y grade can be reported at end of the first-term to indicate work in progress. At the end of the second term, the final grade is posted for both term's elections.

POLISH 492. Senior Honors Course

Consent of instructor required. Approval of departmental Honors Committee. (3). May be repeated for a maximum of 6 credits. Credit is granted for a combined total of six credits of POLISH 491 and 492.

Courses In Russian (RUSSIAN)

RUSSIAN 101. First-Year Russian

(4). May not be repeated for credit. May not be repeated for credit. No credit granted to those who have completed or are enrolled in RUSSIAN 103/RCLANG 193 or RUSSIAN 123 or RUSSIAN 511.

RUSSIAN 102. First-Year Russian, Continued

RUSSIAN 101. (Prerequisites enforced at registration.) (4). May not be repeated for credit. May not be repeated for credit. No credit granted to those who have completed or are enrolled in RUSSIAN 103 or 123 or 512, or RCLANG 193.

RUSSIAN 103. Intensive First-Year Russian

(8). May not be repeated for credit. Credit is granted from only one course among RUSSIAN 103, 111, 123, or RCLANG 193. No credit is granted to those who have completed or are enrolled in RUSSIAN 101, 102, 511, or 512.

RUSSIAN 125. Russian for Heritage Speakers I

Native or near-native speaker or permission of instructor. (3). May not be repeated for credit.

RUSSIAN 201. Second-Year Russian

RUSSIAN 102 or 103 or 123, or RCLANG 193. (Prerequisites enforced at registration.) (4). May not be repeated for credit. May not be repeated for credit. No credit granted to those who have completed or are enrolled in RUSSIAN 203 or RCLANG 293 or RUSSIAN 223 or 513.

RUSSIAN 202. Second-Year Russian, Continued

RUSSIAN 201. (Prerequisites enforced at registration.) (4). (Lang Req). May not be repeated for credit. May not be repeated for credit. No credit granted to those who have completed or are enrolled in RUSSIAN 203 or 223 or 514, or RCLANG 293.

RUSSIAN 203. Intensive Second Year Russian

RUSSIAN 102, 103, or 123 or RCLANG 193. (Prerequisites enforced at registration.) (8). (Lang Req). May not be repeated for credit. No credit granted to those who have completed or are enrolled in RUSSIAN 201, 202, 223, 513 or 514.

RUSSIAN 225. Russian for Heritage Speakers II

Successful completion of RUSSIAN 125 or permission of instructor. (3). (Lang Req). May not be repeated for credit. May not be repeated for credit. No credit granted to those who have completed or are enrolled in RUSSIAN 301, 302, 303, 515, or 516.

RUSSIAN 231. Russian Culture and Society: An Introduction

(3). (HU). May not be repeated for credit.

RUSSIAN 301. Third-Year Russian

RUSSIAN 202, 203, 223, 225, or RCLANG 293. (Prerequisites enforced at registration.) Satisfactory scores on a proficiency test. (4). May not be repeated for credit. No credit granted to those who have completed or are enrolled in RUSSIAN 303, or 515. F.

RUSSIAN 302. Third-Year Russian

RUSSIAN 301 or RCLANG 323. (Prerequisites enforced at registration.) (4). May not be repeated for credit. No credit granted to those who have completed or are enrolled in RUSSIAN 303, or 516.

RUSSIAN 346. Russian Literature from Romanticism to Realism

(3). (HU). May not be repeated for credit.

RUSSIAN 347 / RCHUMS 347. Survey of Russian Literature

A knowledge of Russian is not required. No knowledge of Russian literature or history is presupposed. (4). (HU). May not be repeated for credit.

RUSSIAN 358. Central Asia through Russian Eyes: Cultural Appropriation of an Exotic Land

(3). (HU). May not be repeated for credit. No credit granted to those who have completed or are enrolled in RUSSIAN 558. Taught in English.

RUSSIAN 360. Emigre Literature

(3). (HU). May not be repeated for credit. No credit granted to those who have completed or are enrolled in RUSSIAN 560.

RUSSIAN 361. Russian Modernism: Decadence, Symbolism, and the Avant-garde in Russia

(3). (HU). May not be repeated for credit. May not be repeated for credit.

RUSSIAN 365. Russian Fantasy and Science Fiction

(3). (HU). May not be repeated for credit.

RUSSIAN 371. St Petersburg - the City and its Texts

(3). (HU). May not be repeated for credit.

RUSSIAN 375 / HISTORY 333. Literature and Empire: Nineteenth-Century Russian Prose

(3). (HU). (R&E). May not be repeated for credit.

RUSSIAN 382. Masterpieces of Russian Literature

(3). (HU). May not be repeated for credit. No credit granted to those who have completed or are enrolled in RUSSIAN 582.

RUSSIAN 391 / MEMS 391. Art, Culture, and Literature in Old Russia

(3). (HU). May not be repeated for credit. No credit granted to those who have completed or are enrolled in RUSSIAN 551.

RUSSIAN 401. Fourth-Year Russian

RUSSIAN 302 or 303. (4). May not be repeated for credit. May not be repeated for credit. No credit granted to those who have completed or are enrolled in RUSSIAN 403 or 517. F.

RUSSIAN 402. Fourth-Year Russian

RUSSIAN 401. (4). May not be repeated for credit. May not be repeated for credit. No credit granted to those who have completed or are enrolled in RUSSIAN 403 or 518. W.

RUSSIAN 418 / ISLAM 418 / MIDEAST 418 / REES 418. Islam in/and Russia: Russia's Encounters with Islam and Muslims

(3). May not be repeated for credit.

RUSSIAN 430. Supervised Reading of Russian Literature

Consent of instructor required. Permission of Department Chair. (1 - 4). (INDEPENDENT). May be elected twice for credit.

RUSSIAN 464. Tolstoy

(3). May not be repeated for credit. Taught in English. No prior knowledge of Russian literature and culture is necessary. Russian concentrators are expected to read Russian texts.

RUSSIAN 491. Senior Honors Course

Consent of instructor required. Approval of departmental Honors Committee. (3). (INDEPENDENT). May be repeated for a maximum of 6 credits. Credit is granted for a combined total of six credits of RUSSIAN 491 and 492. Continuing Course. Y grade can be reported at end of the first-term to indicate work in progress. At the end of the second term of RUSSIAN 492, the final grade is posted for both term's elections.

RUSSIAN 492. Senior Honors Course

Consent of instructor required. Approval of departmental Honors Committee. (3). (INDEPENDENT). May be repeated for a maximum of 6 credits. Credit is granted for a combined total of six credits of RUSSIAN 491 and 492.

RUSSIAN 499. Advanced Seminar in Russian

RUSSIAN 302 or 303, and 351. (3). May not be repeated for credit. Taught in Russian.

RUSSIAN 551. Old Russian Literature

Permission of instructor. (3). May not be repeated for credit.

Courses In Slavic Languages and Literatures (SLAVIC)

SLAVIC 150. First Year Seminar

Enrollment restricted to first-year students, including those with sophomore standing. (3). (HU). May be repeated for a maximum of 6 credits.

SLAVIC 225. Arts and Cultures of Central Europe

(3). (HU). May not be repeated for credit.

SLAVIC 245. Vampires and How to Spot Them: Blood, Lust and Power

(3). (HU). May not be repeated for credit.

SLAVIC 260. Directed Reading in Slavic Studies

Consent of instructor required. (1 - 4). May be elected twice for credit.

SLAVIC 261. Introduction to Baltic Cultures

(3). (HU). May not be repeated for credit.

SLAVIC 270 / JUDAIC 271. Contact and Conflict: Jewish Experience in Eastern Europe through Art, Film and Literature

(3). (HU). (R&E). May not be repeated for credit.

SLAVIC 281 / JUDAIC 281 / MIDEAST 281. Jews in the Modern World: Texts, Images, Ideas

(4). (HU). (R&E). May not be repeated for credit.

SLAVIC 290. Studies in Eastern European Cultures

(1 - 3; 1 in the half-term). (HU). May be elected three times for credit. May be elected more than once in the same term.

SLAVIC 312 / RCHUMS 312. Central European Cinema

A knowledge of Russian is not required. (3). (HU). (R&E). May not be repeated for credit. Taught in English.

SLAVIC 315. Field Work

Consent of instructor required. At least one course in Russian, Polish, Czech, Ukrainian and/or Bosnian/Croatian/Serbian language, literature, culture, or history. (1 - 3). (EXPERIENTIAL). May be repeated for a maximum of 6 credits. Offered mandatory credit/no credit.

SLAVIC 395 / HISTORY 332 / POLSCI 395 / REEES 395 / SOC 392. Russia and the Soviet Union: Reform, Revolution, and the Socialist Experiment

(4; 3 in the half-term). (SS). May not be repeated for credit. May not be counted in a Slavic Department academic minor. F.

SLAVIC 397 / ANTHRCUL 317 / HISTORY 228 / POLSCI 334 / REEES 397 / SOC 317. Communism and Capitalism in Eastern Europe

(4). (SS). May not be repeated for credit. No credit granted to those who have completed or are enrolled in REEES 396 or SLAVIC 396 or POLSCI 396 or HISTORY 333 or SOC 393.

SLAVIC 450. Directed Readings in Slavic Studies

(1 - 4). (INDEPENDENT). May be elected twice for credit.

SLAVIC 470. Topics in Cultural Studies of Central, Eastern, and Southern Europe

(1 - 3; 1 in the half-term). May be repeated for a maximum of 9 credits.

Courses In Ukrainian (UKR)

UKR 151. First-Year Ukrainian

(4). May not be repeated for credit. May not be repeated for credit. No credit granted to those who have completed or are enrolled in UKR 103.

UKR 152. First-Year Ukrainian

UKR 151. (4). May not be repeated for credit. May not be repeated for credit. No credit granted to those who have completed or are enrolled in UKR 103.

UKR 251. Second-Year Ukrainian

UKR 152 or 103. (Prerequisites enforced at registration.) (4). May not be repeated for credit. May not be repeated for credit. No credit granted to those who have completed or are enrolled in UKR 203.

UKR 252. Second-Year Ukrainian

UKR 251. (Prerequisites enforced at registration.) (4). (Lang Req). May not be repeated for credit. May not be repeated for credit. No credit granted to those who have completed or are enrolled in UKR 203.

UKR 316. Revolutions in Ukrainian Cinema

(3). (HU). May not be repeated for credit.

UKR 351. 3rd Year Ukrainian I

UKR 252 with a minimum grade of C. (3). May not be repeated for credit. May not be repeated for credit.

UKR 352. 3rd Year Ukrainian II

UKR 351 with a minimum grade of C. (3). May not be repeated for credit. May not be repeated for credit.

UKR 421. Directed Reading in Ukrainian Literature

Consent of instructor required. Open to non-concentrators. A knowledge of Ukrainian is not required. (1 - 4). (INDEPENDENT). May be repeated for a maximum of 8 credits.

UKR 450. Internship in Ukraine

Consent of instructor required. UKR 152. (1 in the half-term). (EXPERIENTIAL). May be elected twice for credit. Offered mandatory credit/no credit. Rackham credit requires additional work.

LSA Sociology

Courses In Sociology (SOC)

SOC 100. Introduction to Sociology

Restricted to first- and second-year students. (Prerequisites enforced at registration.) Juniors and seniors electing an introductory course should elect SOC 300 or SOC 302. (4; 3 in the half-term). (SS). May not be repeated for credit. No credit granted to students who have completed or are enrolled in SOC 102, 195, 300, or 302. May not be included in a Sociology major.

SOC 102. Introduction to Sociology: Special Topics

Restricted to first- and second-year students. (Prerequisites enforced at registration.) Juniors and seniors electing an introductory course should elect SOC 300 or SOC 302. (4; 3 in the half-term). (SS). May be repeated for a maximum of 8 credits. No credit granted to students who have completed or are enrolled in SOC 100, 195, 300, or 302. May not be included in a Sociology major.

SOC 105. First Year Seminar in Sociology

Enrollment restricted to first-year students, including those with sophomore standing. (3). (SS). May not be repeated for credit. May not be included in a Sociology major.

SOC 122 / ALA 122 / EDUC 122 / PSYCH 122. Intergroup Dialogues

Consent of instructor required. (3). (SS). (R&E). May be repeated for a maximum of 6 credits. May not be included in a major in Sociology. May not be used as a prerequisite for, or included in, a major in Psychology.

SOC 204. Sociology of International Migration and Refugees

(3). (SS). May not be repeated for credit.

SOC 208. Terrorism, Torture, and Violence

(4; 3 in the half-term). (SS). May not be repeated for credit.

SOC 210. Introduction to Statistics for Social Science

(4; 3 in the half-term). (MSA). (BS). (QR/1). May not be repeated for credit. No credit granted to those who have completed or are enrolled in STATS 250, 280, or 412, or ECON 404, 405, 251, 451, and 453, or IOE 265. Those with credit for SOC 210 receive no credit for STATS 180. Sociology majors should elect this course during their sophomore year. Honors majors should enroll in SOC 210, STATS 250 (350) or its

equivalent prior to beginning the Honors course sequence in the winter term of the junior year.

SOC 214 / ORGSTUDY 204. Nonprofits

(3). May not be repeated for credit. No credit granted to those who have completed or are enrolled in ORGSTUDY 420.

SOC 216 / WGS 216. Thinking Class: Inequality in Media, Bodies, Environment, and More

(3). May not be repeated for credit.

SOC 218 / ALA 220 / PSYCH 213. Foundations of Intergroup Relations

No credit granted if you've already taken ALA 220, SOC 218, or PSYCH 218 with the topic "Foundations in Intergroup Relations (#2). (Prerequisites enforced at registration.) (3). (SS). (R&E). May not be repeated for credit.

SOC 220 / RCSTP 220. Political Economy

(4). (SS). May not be repeated for credit.

SOC 221 / AMCULT 221. Unequal America: Understanding Social Inequality

(4; 3 in the half-term). (SS). May not be repeated for credit.

SOC 225. Project Community: Sociology in Action

(2 - 4). (EXPERIENTIAL). May not be repeated for credit.

SOC 233. Social Problems

(4; 3 in the half-term). (SS). May not be repeated for credit.

SOC 240. Sociology of Culture

(4; 3 in the half-term). (SS). May not be repeated for credit.

SOC 242. The Experience of Social Class in College and the Community

(3). (SS). May not be repeated for credit.

SOC 250. Politics, Power, and Society

(4; 3 in the half-term). (SS). May not be repeated for credit.

SOC 251 / CMLXSYS 251. Computational Social Sciences

One intro statistics course (for example, STATS 250 or its social science equivalent). (4). (SS). (QR/1). May not be repeated for credit.

SOC 255. Sociology of Music: Impacts of Culture on Composition and Performance

One course in sociology or musicology, or extensive personal background in music. (3). (SS). May not be repeated for credit.

SOC 260 / CMLXSYS 260. Tipping Points, Bandwagons and Cascades: From Individual Behavior to Social Dynamics

(3). May not be repeated for credit.

SOC 261 / RCSTP 261. Policing, Power, and Protest in the United States

(3). (SS). May not be repeated for credit.

SOC 270 / WGS 270. Gender and the Law

(4; 3 in the half-term). (SS). (R&E). May not be repeated for credit.

SOC 285 / DIGITAL 285. Social Life in the Digital World

(4). (SS). May not be repeated for credit.

SOC 295. Topics in Sociology

(1 - 4). (SS). May be elected three times for credit. May be elected more than once in the same term.

SOC 300. Sociological Principles and Problems

(3). (SS). May not be repeated for credit. No credit granted to those who have completed or are enrolled in SOC 100, 102, 195, or 302.

SOC 302. Health and Society: An Introduction to Sociology

(4). (SS). May not be repeated for credit. No credit granted to those who have completed or enrolled in SOC 100, SOC 102, SOC 195, SOC 300.

SOC 303 / AAS 303. Race and Ethnic Relations

An introductory course in Sociology or AAS 201. (3 - 4; 3 in the half-term). (SS). (R&E). May not be repeated for credit.

SOC 304 / AMCULT 304 / LATINOAM 304. American Immigration

One introductory course in Sociology or American Culture. (4). (SS). (R&E). May not be repeated for credit.

SOC 305. Introduction to Sociological Theory

At least one course in introductory sociology. (4; 3 in the half-term). May not be repeated for credit. It is highly recommended that sociology majors not elect both SOC 305 and SOC 310 in the same term.

SOC 310. Sociological Research Methods

Sociology majors. (Prerequisites enforced at registration.) Sociology majors are strongly encouraged to elect SOC 310 in their junior year.

Honor majors should elect this course prior to or concurrently with SOC 497 (the first required course in the Sociology Honors sequence). (4; 3

in the half-term). (BS). (QR/1). May not be repeated for credit. No credit granted to those who have completed SOC 312. Meets the sociology

Research Methods Requirement. It is highly recommended that sociology majors not elect both SOC 305 and SOC 310 in the same term.

SOC 313 / RCSTP 301. Social Theory for Social Change

At least one 200-level social science course. (4). (SS). May not be repeated for credit.

SOC 315. Economic Sociology: Money, Markets, and Power

One introductory course in sociology, economics, or political science. (3 - 4). (SS). May not be repeated for credit.

SOC 317 / ANTHRCUL 317 / HISTORY 228 / POLSCI 334 / REEES 397 / SLAVIC 397. Communism and Capitalism in Eastern Europe

(4). (SS). May not be repeated for credit. No credit granted to those who have completed or are enrolled in REEES 396 or SLAVIC 396 or

POLSCI 396 or HISTORY 333 or SOC 393.

SOC 320 / ALA 320 / PSYCH 310. Processes of Intergroup Dialogues Facilitation

Admission by application. Previous participation in ALA 122/PSYCH 122/SOC 122 strongly encouraged. (3). (SS). (R&E). May not be repeated for credit.

SOC 321 / ALA 321 / EDUC 329 / PSYCH 311. Practicum in Facilitating Intergroup Dialogues

PSYCH 310/SOC 320 and permission of instructor. (4). (SS). (R&E). (EXPERIENTIAL). May not be repeated for credit.

SOC 323 / AAS 321. African American Social Thought

AAS 201. (3). (SS). May not be repeated for credit.

SOC 324 / ALA 322 / PSYCH 324. Advanced Practicum in Intergroup Relations

Consent of instructor required. UC 320/PSYCH 310/SOC 320. (1 - 4). (EXPERIENTIAL). May be repeated for a maximum of 8 credits. A combined total of six credits of SOC 394, 395, and 396 may be counted toward a major or minor in Sociology.

SOC 325. Project Community Advanced Practicum

Consent of department required. SOC 225 plus SOC 310: Sociological Research Methods or an equivalent research methods course. (2 - 4). (EXPERIENTIAL). May not be repeated for credit.

SOC 326 / SW 305. Theories and Practices for Community Action and Social Change
Community Action and Social Change Minor declared or interested in declaring. May not be repeated for credit.

SOC 330. Population Problems
(3). (SS). May not be repeated for credit.

SOC 331. The Politics of Data
(3). (SS). May not be repeated for credit.

SOC 335 / AAS 347 / RCSTP 343. Urban Inequality in America
One course in introductory sociology. (4; 3 in the half-term). (SS). May not be repeated for credit. No credit granted to students who are enrolled in or have completed SOC 435 or SOC 535.

SOC 344. Sociology of Families
One introductory course in Sociology. (4; 3 in the half-term). (SS). May not be repeated for credit.

SOC 345 / WGS 348. Sociology of Sexualities
One introductory course in Sociology. (4; 3 in the half-term). (SS). May not be repeated for credit.

SOC 346. Sociology of the Body
One introductory course in Sociology or Women's Studies. (3). May not be repeated for credit.

SOC 354. Law and Society
One introductory course in any social science discipline. (4). (SS). May not be repeated for credit. No credit for students who have taken SOC 454 prior to Fall 2013.

SOC 368. Criminology
One introductory course in sociology. (4; 3 in the half-term). (SS). May not be repeated for credit.

SOC 379 / POLSCI 386. Sports, Politics, and Society
One introductory course in sociology or political science. (3). (SS). May not be repeated for credit. No credit for those who have completed SOC 212/GERMAN 212.

SOC 391. Sociology in Practice
One introductory course in Sociology. (1 - 4; 1 - 3 in the half-term). (EXPERIENTIAL). May be elected twice for credit.

SOC 392 / HISTORY 332 / POLSCI 395 / REEES 395 / SLAVIC 395. Russia and the Soviet Union: Reform, Revolution, and the Socialist Experiment
(4; 3 in the half-term). (SS). May not be repeated for credit. May not be counted in a Slavic Department academic minor. F.

SOC 394. Undergraduate Research
Consent of instructor required. (1 - 4). (INDEPENDENT). May be repeated for a maximum of 8 credits. A combined total of six credits of SOC 394, 395, and 396 may be counted toward a major or minor in Sociology.

SOC 395. Independent Study
Consent of instructor required. Enrollment requires departmental application and permission of supervising faculty. Students must have completed at least one introductory sociology course and one sociology course at the 300 level or above to apply. (1 - 4). (INDEPENDENT). May be repeated for a maximum of 8 credits. May be elected more than once in the same term. A combined total of six credits of SOC 394, 395, and 396 may be counted toward a major or minor in Sociology.

SOC 396. Undergraduate Internship
Consent of department required. Students must have a declared major or minor in Sociology, Law, Justice, and Social Change, or Sociology of Health & Medicine. (1). (EXPERIENTIAL). May be repeated for a maximum of 2 credits. May be elected more than once in the same term. A combined total of six credits of SOC 394, 395, and 396 may be counted toward a major or minor in Sociology. Offered mandatory credit/no credit.

SOC 397. Sociology Opportunities for Undergraduate Leaders I
Consent of department required. (2). May not be repeated for credit.

SOC 398. Sociology Opportunities for Undergraduate Leaders II
SOC 397. (Prerequisites enforced at registration.) (2). May not be repeated for credit.

SOC 404 / AMCULT 404 / LATINOAM 404. Latinas/os in the U. S.: Social Problems and Social Issues
Upperclass standing. (3). (R&E). May not be repeated for credit.

SOC 418 / ORGSTUDY 445. Organizational Culture
No credit granted to those who have completed or are enrolled in ORGSTUDY 495 with topic #29, "Organizational Culture". (Prerequisites enforced at registration.) (3). May not be repeated for credit.

SOC 422. Sociology of Latin America
One introductory course in Sociology. (3). May not be repeated for credit.

SOC 426 / CCS 526. Gender and Family in East Asia
One introductory course in any social science discipline. (3). May not be repeated for credit. Rackham credit requires additional work.

SOC 427 / ASIAN 459. Sociology of Contemporary Korea
(3). May not be repeated for credit.

SOC 428 / ASIAN 490 / PUBPOL 428. Contemporary China
One introductory course in sociology. (3). May not be repeated for credit. Rackham credit requires additional work.

SOC 430. World Population Dynamics
(3 - 4; 3 in the half-term). (QR/2). May not be repeated for credit. No credit granted to those who have completed or are enrolled in SOC 530.

SOC 445 / WGS 449. Diagnosis, Sex, and Society
(3). May not be repeated for credit. Rackham credit requires additional work.

SOC 447 / WGS 447. Sociology of Gender
One introductory course in SOC or WGS. (3). May not be repeated for credit.

SOC 451 / WGS 451. Women, Inequality, and Work
WGS/AMCULT 240 (WOMENSTD/AMCULT 240) or SOC 100, and one other course in SOC or Women's & Gender Studies. (3). May not be repeated for credit.

SOC 458. Sociology of Education

One introductory course in Sociology. (3). May not be repeated for credit.

SOC 460. Social Change

(3). May not be repeated for credit.

SOC 461. Social Movements: Political Protest and Collective Resistance

One introductory course in Sociology. (4; 3 in the half-term). May not be repeated for credit.

SOC 465 / PSYCH 488 / WGS 465. Sociology of Deviance: From Sin to Sickness

One introductory course in Sociology. (4; 3 in the half-term). May not be repeated for credit.

SOC 471 / ALA 429 / PSYCH 411. IGR Senior Capstone: Social Justice in the Real World

Consent of instructor required. UC/SOC 320/321/PSYCH 310/311 or CASC Foundations and 2 related courses in social movements or activism.

(3). May not be repeated for credit.

SOC 474. Social Inequalities in Health

(3). May not be repeated for credit.

SOC 475. Health, Medicine, and Society

One introductory course in sociology. (4; 3 in the half-term). May not be repeated for credit.

SOC 476. Sociology of Bioethics

One introductory course in sociology. (3). May not be repeated for credit.

SOC 477. Death and Dying

An introductory course in Sociology: SOC 100, 102, 195, 300, or 302. (4; 3 in the half-term). May not be repeated for credit.

SOC 489 / RCSTP 489. Organizing: People, Power, and Change

(3). May not be repeated for credit.

SOC 495. Topics in Sociology

One introductory course in Sociology. (1 - 4; 1 - 3 in the half-term). May be elected three times for credit. May be elected more than once in the same term.

SOC 497. Honors: Proposal Writing

Honors Sociology concentrators and [SOC 210 or STATS 350]. (Prerequisites enforced at registration.) (3). May not be repeated for credit. W.

SOC 498. Honors: Data Collection and Analysis

SOC 497. (Prerequisites enforced at registration.) (3). May not be repeated for credit.

SOC 499. Honors: Thesis Writing

SOC 498. (Prerequisites enforced at registration.) (3). May not be repeated for credit.

SOC 503. The Sociology of Race, Ethnicity, and Immigration

(3). May not be repeated for credit.

SOC 522. Practicum in Qualitative Research Methods

Consent of instructor required. (3). May not be repeated for credit.

SOC 523. Practicum in Qualitative Research Methods II

Permission of instructor. (3). May not be repeated for credit.

SOC 575. Sociology of Health and Health Care

(3). May not be repeated for credit.

SOC 595. Topics in Sociology

(3; 2 in the half-term). May be repeated for a maximum of 6 credits. May be elected more than once in the same term.

LSA Statistics

Courses In Data Science (DATASCI)

DATASCI 101. Introduction to Data Science

High school algebra. (4). (MSA). (BS). (QR/1). May not be repeated for credit.

DATASCI 306. Introduction to Statistical Computing

[DATASCI 101 or STATS 206 or STATS 250 or STATS 280 or STATS 412 or ECON 451 or IOE 265] AND prior or concurrent enrollment in [MATH 116 or MATH 121 or MATH 156 or MATH 176 or MATH 186 or any 200+ level math credit except for MATH 201.]. (Prerequisites enforced at registration.) (4). (BS). May not be repeated for credit.

DATASCI 315. Statistics and Artificial Intelligence

(STATS 250 or STATS 206 or STATS 280 or STATS 412 or IOE 265 or DATASCI 101) and (STATS 306 or DATASCI 306 or EECS 183 or ENG 101) and (MATH 116 or MATH 121 or MATH 156 or MATH 176 or MATH 186). (Prerequisites enforced at registration.) (4). (BS). May not be repeated for credit.

DATASCI 403 / MATH 403. Introduction to Discrete Mathematics

Linear Algebra (one of MATH 214, 217, 286, 296, 417, or 419) or instructor permission. (3). (BS). May not be repeated for credit. No credit granted to those who have completed or are enrolled in MATH 465, 565, or 566.

DATASCI 406. Computational Methods in Statistics and Data Science

Linear Algebra (MATH 214 or 217 or 417) & Intro Programming (STATS 306 or DATASCI 306 or EECS 183 or EECS 280 or ENGR 101) & either (i) Intermediate Statistics (STATS 412 or STATS 426) or (ii) [Introductory Statistics (DATASCI 101 or STATS 206 or STATS 250 or STATS 280) & Probability (MATH/STATS 425 or 525)]. (Prerequisites enforced at registration.) (3). (BS). May not be repeated for credit.

DATASCI 415. Data Mining and Statistical Learning

Linear Algebra (MATH 214 or MATH 217 or MATH 417) and either (i) Intermediate Statistics (STATS 401 or STATS 412 or STATS 426) or (ii) [Introductory Statistics (DATASCI 101 or STATS 206 or STATS 250 or STATS 280) and Probability (MATH/STATS 425 or MATH/STATS 525)]. (Prerequisites enforced at registration.) (4). (BS). May not be repeated for credit.

DATASCI 451. Bayesian Data Analysis

Probability (STATS 412 or MATH/STATS 425 or MATH/STATS 525) and Computer Programming (STATS 306 or DATASCI 306 or EECS 280). (Prerequisites enforced at registration.) (4). (BS). May not be repeated for credit.

DATASCI 470. Introduction to the Design of Experiments

Linear Regression (STATS 401 or STATS 413 or Econ 452 or IOE 366). (Prerequisites enforced at registration.) (4). (BS). May not be repeated for credit.

DATASCI 501 / STATS 501. Advanced Regression Analysis

STATS 500 or permission of instructor. (BS). May not be repeated for credit.

DATASCI 531 / STATS 531. Modeling and Analysis of Time Series Data

STATS 500 or equivalent and co-requisite 511. (BS). May not be repeated for credit.

Courses In Statistics (STATS)

STATS 125. Statistics, Games and Coincidences

Enrollment restricted to first-year students, including those with sophomore standing. (3). (MSA). (BS). (QR/1). May not be repeated for credit.

STATS 250. Introduction to Statistics and Data Analysis

(4). (MSA). (BS). (QR/1). May not be repeated for credit. No credit granted to those who have completed or are enrolled in ECON 451, IOE 265, or STATS 280 or STATS 412. Those with credit for STATS 250 receive no credit for STATS 180.

STATS 280. Honors Introduction to Statistics and Data Analysis

Pre-calculus. (4). (MSA). (BS). (QR/1). May not be repeated for credit. No credit granted to those who have completed or are enrolled in ECON 451, IOE 265, SOC 210, STATS 250 or STATS 412.

STATS 299. Workplace Internship for Undergraduate Statistics Majors

Consent of department required. (1). (EXPERIENTIAL). May be elected twice for credit. Offered mandatory credit/no credit.

STATS 401. Applied Statistical Methods II

One of (MATH 115, 120, 121) and one of (STATS 180, STATS 206, STATS 250, STATS 280, STATS 412, ECON 451). (4). (BS). (QR/1). May not be repeated for credit. No credit granted to those who have completed or are enrolled in STATS/DATASCI 413.

STATS 404. Effective Communication in Statistics

STATS 470 or 480. (2). (BS). May not be repeated for credit. May not be used in the Statistics or Applied Statistics academic minor. Rackham credit requires additional work.

STATS 412. Introduction to Probability and Statistics

MATH 205 or MATH 215 or MATH 285. (Prerequisites enforced at registration.) (3). (BS). (QR/1). May not be repeated for credit. May not be used in the Statistics or Applied Statistics academic minor. F, W, Sp.

STATS 413. Applied Regression Analysis

Linear Algebra (MATH 214 or MATH 217 or MATH 417) and either (i) Intermediate Statistics (STATS 401 or STATS 412 or STATS 426) or (ii) [Introductory Statistics (DATASCI 101 or STATS 206 or STATS 250 or STATS 280) and Probability (MATH/STATS 425 or MATH/STATS 525)]. (Prerequisites enforced at registration.) (4). (BS). May not be repeated for credit. No credit granted for those who have completed or enrolled in STATS 500.

STATS 425 / MATH 425. Introduction to Probability

MATH 205, 215, or 285. (3). (BS). May not be repeated for credit. F, W, Sp, Su.

STATS 426. Introduction to Theoretical Statistics

Linear Algebra (MATH 214 or MATH 217 or MATH 417) and Probability (MATH/STATS 425 or MATH/STATS 525 or STATS 412). (Prerequisites enforced at registration.) (3). (BS). May not be repeated for credit.

STATS 430. Applied Probability

Probability (MATH/STATS 425 or MATH/STATS 525). (Prerequisites enforced at registration.) (3). (BS). May not be repeated for credit.

STATS 449 / BIostat 449. Topics in Biostatistics

Linear Regression (STATS 401 or STATS 413 or ECON 452 or IOE 366). (Prerequisites enforced at registration.) (3). (BS). May not be repeated for credit.

STATS 480. Survey Sampling Techniques

Either (i) Intermediate statistics (STATS 306 or 401 or 412) or (ii) Probability (MATH/STATS 425 or 525). (Prerequisites enforced at registration.) (4). (BS). May not be repeated for credit. W.

STATS 485. Capstone Seminar

STATS/DATASCI 413 and senior standing. (Prerequisites enforced at registration.) (3). (BS). May not be repeated for credit.

STATS 489. Independent Study in Statistics

Consent of instructor required. (1 - 4). (BS). (INDEPENDENT). May be repeated for a maximum of 4 credits. May not be used in the Statistics or Applied Statistics academic minor.

STATS 499. Honors Seminar

Consent of instructor required. Permission of departmental Honors advisor. (2 - 3). (BS). (INDEPENDENT). May be repeated for a maximum of 6 credits. May not be used in the Statistics or Applied Statistics academic minor. Continuing Course. Y grade can be reported at end of the first-term to indicate work in progress. At the end of the second term, the final grade is posted for both term's elections. F, W, Sp.

STATS 501 / DATASCI 501. Advanced Regression Analysis

STATS 500 or permission of instructor. (3). (BS). May not be repeated for credit. W.

STATS 525 / MATH 525. Probability Theory

One semester of multivariable calculus (205, 215, 285, or equivalent) and one semester of analysis (351, 451, or equivalent), OR graduate standing. (Prerequisites enforced at registration.) (3). (BS). May not be repeated for credit.

STATS 526 / MATH 526. Discrete State Stochastic Processes

MATH 525 or STATS 525 or EECS 501. (3). (BS). May not be repeated for credit.

STATS 531 / DATASCI 531. Modeling and Analysis of Time Series Data

STATS 500 or equivalent and co-requisite 511. (BS). May not be repeated for credit. W.

STATS 547 / BIOINF 547 / MATH 547. Mathematics of Data

Basic probability (level of MATH/STATS 425 or MATH/STATS 525), or molecular biology (level of BIOLOGY 427), or biochemistry (level of CHEM/BIOLCHEM 451), or basic programming skills desirable or permission. (3). (BS). May not be repeated for credit.

LSA Studies in Religion

Courses In Religion (RELIGION)

RELIGION 110 / JUDAIC 120 / MELANG 101. Elementary Classical Hebrew I

(3). May not be repeated for credit.

RELIGION 202 / ASIAN 220. Philosophy and Religion in Asia

(4). (HU). May not be repeated for credit.

RELIGION 204 / ISLAM 216 / MIDEAST 216. Islam in History

(3). (HU). May not be repeated for credit. W.

RELIGION 209 / HISTORY 209 / INTLSTD 209 / STS 209. Death, Immortality, and Afterlife

(4; 3 in the half-term). (ID). May not be repeated for credit.

RELIGION 225 / ASIAN 225. Introduction to Hinduism

(4). (HU). May not be repeated for credit.

RELIGION 230 / ASIAN 230 / PHIL 230. Introduction to Buddhism

(4). (HU). May not be repeated for credit.

RELIGION 231 / ASIAN 231. Introduction to Tibetan Buddhism

(4). (HU). May not be repeated for credit.

RELIGION 234 / ASIAN 234. Buddhism and Death

(3). (HU). May not be repeated for credit.

RELIGION 236 / MIDEAST 236. Introduction to the New Testament

(4; 3 in the half-term). (HU). May not be repeated for credit.

RELIGION 246 / ANTHRCUL 246 / ISLAM 246. Anthropology of Religion

(4). (HU). May not be repeated for credit.

RELIGION 248 / ASIAN 248 / HISTORY 248. Jesus Comes to Asia: Conversion and its Consequences in Asia

(4). (HU). (R&E). May not be repeated for credit.

RELIGION 258 / ENGLISH 258 / JUDAIC 258. The Bible as Literature

(3). (HU). May not be repeated for credit.

RELIGION 261 / JUDAIC 262 / MIDEAST 262. The Bible and the Quran

No credit in JUDAIC 217 with the topic *The Bible and the Quran*. (Prerequisites enforced at registration.) (3). (HU). May not be repeated for credit.

RELIGION 262 / PHIL 262. Introduction to the Philosophy of Religion

(4; 3 in the half-term). (HU). May not be repeated for credit.

RELIGION 270 / MIDEAST 242. Rabbis: Literature and Culture

(3). (HU). May not be repeated for credit. No credit granted to those who have completed or are enrolled in HJCS 470 or JUDAIC 470 or HJCS 570 or ACABS 570 or JUDAIC 570. Taught in English.

RELIGION 277 / MIDEAST 207. The Land of Israel/Palestine through the Ages

(4; 3 in the half-term). (HU). (R&E). May not be repeated for credit. Taught in English.

RELIGION 280 / ISLAM 238 / JUDAIC 280 / MIDEAST 238. The Historical Jesus in Christianity, Judaism, and Islam

(4; 3 in the half-term). (HU). May not be repeated for credit.

RELIGION 305 / ASIAN 305. Religion and Violence in the Secular World

(4). (HU). May not be repeated for credit.

RELIGION 323 / ASIAN 325. Zen: History, Culture, and Critique

(4). (HU). May not be repeated for credit.

RELIGION 325 / ASIAN 324 / HISTORY 325 / ISLAM 325 / MEMS 325 / MIDEAST 375. The History of Islam in South Asia

(4). (HU). (R&E). May not be repeated for credit.

RELIGION 326 / ARCHAM 327 / CLCIV 327 / MIDEAST 355. Jews in the Roman Mediterranean: Archaeology, Religion, and Culture

(3). (ID). May not be repeated for credit.

RELIGION 328 / ASIAN 328. Introduction to Theravada Buddhism

(3). (HU). May not be repeated for credit.

RELIGION 334 / ENGLISH 337 / JUDAIC 334 / MIDEAST 334. The Bible as a Material Object

No credit in JUDAIC 318 with the topic *The Bible as a Material Object*. (Prerequisites enforced at registration.) (3). (HU). May not be repeated for credit.

RELIGION 342 / JUDAIC 342. Jerusalem: One City Three Faiths

No credit in JUDAIC 318 or JUDAIC 253 with the topic *Jerusalem: One City Three Faiths*. (Prerequisites enforced at registration.) (3). (HU). May not be repeated for credit.

RELIGION 350 / HISTORY 308 / MIDEAST 336. The Earliest Christians

(4; 3 in the half-term). (HU). May not be repeated for credit.

RELIGION 353 / ARCHAM 354 / CLCIV 354 / MIDEAST 354. Ancient Jerusalem: Archaeology, Religion, and Culture

(3). (ID). May not be repeated for credit.

RELIGION 359 / JUDAIC 335 / MIDEAST 335. History and Religion of Second Temple Judaism

(3). (HU). May be elected three times for credit.

RELIGION 363 / MIDEAST 322. The Qur'an and Its Interpretations

No prior knowledge of Islam is necessary, although some knowledge of the Bible would be helpful. (3). (HU). May not be repeated for credit.

RELIGION 373 / JUDAIC 374 / MIDEAST 373. Religions of the Jews

(3). (HU). May not be repeated for credit.

RELIGION 380. Selected Topics

Only one course from RELIGION 380, 387, and 487 may be elected in the same term. (3). May be repeated for a maximum of 6 credits.

RELIGION 386 / ENVIRON 387. Ecology and Religion

(3). (HU). May not be repeated for credit.

RELIGION 387. Independent Study

Consent of instructor required. Only once course from RELIGION 380, 387, and 487 may be elected in the same term. (1 - 3). (INDEPENDENT). May be repeated for credit. F, W, Sp/Su.

RELIGION 402. Topics in Religion

Junior standing or permission of instructor. (1 - 3; 2 in the half-term). May not be repeated for credit.

RELIGION 421 / AAS 421 / HISTORY 421 / LACS 421. Religions of the African Diaspora

(3). (R&E). May not be repeated for credit. Rackham credit requires additional work.

RELIGION 423 / ISLAM 423 / MIDEAST 423. Islamic Law/Shariah

NEAREAST 216. (3). May not be repeated for credit.

RELIGION 465 / MIDEAST 421. Islamic Mysticism: Sufism in Time and Space

(3). May not be repeated for credit. Taught in English.

RELIGION 469 / JUDAIC 468 / MIDEAST 456. Jewish Mysticism

(3). May not be repeated for credit. Taught in English.

RELIGION 476 / CLCIV 476 / HISTORY 405. Pagans and Christians in the Roman World

(4; 3 in the half-term). May not be repeated for credit.

RELIGION 485 / ASIAN 485. Religion in China

Consent of instructor required. ASIAN 230 or permission of instructor. (3). May be repeated for a maximum of 6 credits.

RELIGION 487. Independent Study

Consent of instructor required. Only one course from RELIGION 380, 387 and 487 may be elected in the same term. (1 - 3). (INDEPENDENT).

May be repeated for credit. F, W, Sp/Su.

RELIGION 497. Senior Honors Thesis

Consent of instructor required. Open only to seniors admitted to the Honors concentration program with permission of instructor. (1 - 6).

(INDEPENDENT). May be repeated for a maximum of 6 credits. Continuing Course. Y grade can be reported at end of the first-term to indicate work in progress. At the end of the second term, the final grade is posted for both term's elections. F, W, Sp.

LSA Sweetland Writing Center

Courses In Sweetland Center for Writing (WRITING)

WRITING 100. The Practice of Writing

(3). May be repeated for a maximum of 6 credits. Offered mandatory credit/no credit.

WRITING 120. College Writing for International and Multilingual Students

(3). May be elected twice for credit. A maximum of two elections of ELI 120 and WRITING 120 is allowed.

WRITING 160. Multimodal Composition

(4). (FYWR). May not be repeated for credit.

WRITING 200 / DIGITAL 200. Writing with Digital and Social Media

(3). May be elected three times for credit. May be elected more than once in the same term.

WRITING 201 / DIGITAL 201. Writing with Digital and Social Media Mini Course

(1). May be elected three times for credit. May be elected more than once in the same term.

WRITING 220. Introduction to the Minor in Writing

Consent of department required. (3). May not be repeated for credit.

WRITING 229. Editing and Style for International and Multilingual Students

(1). May not be repeated for credit.

WRITING 300. Seminar in Peer Writing Consultation

Application process and permission of department. (3). May not be repeated for credit.

WRITING 301. Practicum in Peer Writing Consultation

WRITING 300 or SWC 300. (Prerequisites enforced at registration.) (1). (EXPERIENTIAL). May not be repeated for credit. Offered mandatory credit/no credit.

WRITING 305. MWrite Writing Fellows

Consent of department required. (1). (EXPERIENTIAL). May be elected three times for credit. Offered mandatory credit/no credit.

WRITING 350. Excelling in Upper-Level Writing

Upper-level transfer students concurrently enrolled in at least one course for which they write on a regular basis. (1). May be elected twice for credit. Offered mandatory credit/no credit.

WRITING 390. Directed Writing

Consent of department required. First-Year Writing Requirement and Senior Standing. (3). (INDEPENDENT). May be elected twice for credit.

WRITING 400. Advanced Rhetoric and Research

Completion of the First-Year Writing Requirement. (3). May not be repeated for credit. Rackham credit requires additional work.

WRITING 405. Contemporary Topics and Multidisciplinary Writing

First Year Writing Requirement encouraged. (3). May not be repeated for credit.

WRITING 420. Minor in Writing Capstone

Consent of department required. Completion of WRITING 220 and a majority of course requirements for the Minor in Writing program. (3). May not be repeated for credit.

LSA UG: Curriculum Support

Courses In Applied Liberal Arts (ALA)

ALA 101. A User's Guide to the Liberal Arts

Students cannot enroll if they have completed UC 270, Topic Title "A User's Guide to Liberal Arts". (Prerequisites enforced at registration.) (1 -

2). May not be repeated for credit.

ALA 102. Michigan Community Scholars Program: The Student in the University

Michigan Community Scholars Program participant. (1). May not be repeated for credit. Offered mandatory credit/no credit.

ALA 103. Michigan Community Scholars Program: Academic Decision Making

Admission to the Michigan Community Scholars Program. (1). May not be repeated for credit. Offered mandatory credit/no credit.

ALA 104. Introduction to Research

Participant in Michigan Research and Discovery Scholars. (1). May not be repeated for credit.

ALA 105. Digital Research: Critical Concepts and Strategies

(1). May not be repeated for credit. No credit granted to those who have completed or are enrolled in UC 170, UC 174, UC 175-176, or UC 177 or ALA 105. Offered mandatory credit/no credit.

ALA 106. Health Sciences Scholars Program: Perspectives on Health and Health Care

Restricted to students enrolled in the Health Sciences Scholars Program. (1 - 3). (ID). May not be repeated for credit.

ALA 107. Women in Science and Engineering Residence Program Seminar

Participant in the WISE Residence Program. (1). May not be repeated for credit.

ALA 108. STEM Success

Completion of UC 107. (Prerequisites enforced at registration.) Participation in the WISE Residence Program. (1). May not be repeated for credit.

ALA 109. Perspectives on Health Care

Restricted to students enrolled in the Health Sciences Scholars Program. (1 - 3). (ID). (R&E). May not be repeated for credit.

ALA 115. The Financially Savvy Student

Students cannot enroll if they have already completed UC 170, Topic Title "The Financially Savvy Student". (Prerequisites enforced at registration.) (1 in the half-term). May not be repeated for credit. Offered mandatory credit/no credit.

ALA 118 / SI 106. Programs, Information and People

(MSA). May not be repeated for credit.

ALA 119 / SI 110 / STS 110. Introduction to Information Studies

(SS). May not be repeated for credit.

ALA 122 / EDUC 122 / PSYCH 122 / SOC 122. Intergroup Dialogues

Consent of instructor required. (3). (SS). (R&E). May be repeated for a maximum of 6 credits.

ALA 125. Positioning Yourself for a Successful Internship

Consent of department required. (1 in the half-term). May not be repeated for credit. Offered mandatory credit/no credit.

ALA 170. Applied Liberal Arts Topics

(1 - 3). May be elected four times for credit. May be elected more than once in the same term. Offered mandatory credit/no credit.

ALA 171. Making the Most of Michigan

(1 in the half-term). May not be repeated for credit. Offered mandatory credit/no credit.

ALA 174. BLI Leadership Lab

(1 in the half-term). May not be repeated for credit. Offered mandatory credit/no credit.

ALA 175. Foundations in Leadership

(3). May not be repeated for credit.

ALA 206. Health Career Mentorship, Experiences, and Reflections

Consent of instructor required. (1). May not be repeated for credit.

ALA 210. Defining Critical Global Issues

Consent of department required. (2). May not be repeated for credit.

ALA 211. Addressing Critical Global Issues

Consent of instructor required. (2). May not be repeated for credit.

ALA 212. Practicum: Facilitating Global Engagement

(1). (EXPERIENTIAL). May not be repeated for credit.

ALA 220 / PSYCH 213 / SOC 218. Foundations of Intergroup Relations

No credit granted if you've already taken ALA 220, SOC 218, or PSYCH 218 with the topic "Foundations in Intergroup Relations (#2). (Prerequisites enforced at registration.) (3). (SS). (R&E). May not be repeated for credit.

ALA 221. Introduction to Social Justice and Intergroup Relations Education

(2). May not be repeated for credit.

ALA 223 / PSYCH 223. Entrepreneurial Creativity

No credit is granted for students who previously took UC 270 with the topic "Entrepreneurial Creativity" (#27). (Prerequisites enforced at registration.) (3). May not be repeated for credit.

ALA 225. Undergraduate Internship

Consent of department required. (1). (EXPERIENTIAL). May be repeated for a maximum of 2 credits. May be elected more than once in the same term. Offered mandatory credit/no credit.

ALA 240. Living Well in College and Beyond

(2). May not be repeated for credit.

ALA 250. Topics in Critical Issues

Students cannot enroll if they have already completed 4 instances of ALA 250 or UC 270, Topic Titles Critical Issues in Education, Critical Issues in Health, Critical Issues in Sustainability, or Critical Issues in Detroit. (Prerequisites enforced at registration.) (1). May be repeated for a maximum of 4 credits. May be elected more than once in the same term.

ALA 251 / PUBHLTH 250. On Purpose: Designing and Living a Big Life

(ID). May not be repeated for credit.

ALA 256. Innovator's Toolkit

(3). May not be repeated for credit.

ALA 260. Humanities Topics in ALA

(1 - 4). (HU). May be repeated for a maximum of 9 credits. May be elected more than once in the same term.

ALA 264. Interdisciplinary Topics in ALA

(1 - 4). (ID). May be repeated for a maximum of 9 credits. May be elected more than once in the same term.

ALA 270. Applied Liberal Arts Topics

Students cannot enroll if they have already completed 4 instances of ALA and/or UC 270. (Prerequisites enforced at registration.) (1 - 3). May be elected four times for credit. May be elected more than once in the same term.

ALA 280. Undergraduate Research

Consent of instructor required. First or second year standing. (1 - 4). (EXPERIENTIAL). May be repeated for a maximum of 8 credits. Credit is granted for a combined total of 8 credits in any UROP research courses.

ALA 281. Entering Research

Consent of instructor required. (1 - 4). May be elected twice for credit.

ALA 290 / COMM 290. Public Speaking in the Digital Age

(3 - 4). May not be repeated for credit. No credit granted to those who have completed or are enrolled in SM 101 - Public & Small Group Communication.

ALA 291 / COMM 291. Public Speaking: World of Work

(3). May not be repeated for credit.

ALA 292 / COMM 292. Argumentation and Debate

(3). May not be repeated for credit.

ALA 306 / WGS 305. Interdisciplinary and Intersectional LGBTQ Health

(3). (ID). (R&E). May not be repeated for credit.

ALA 315. Popular Science

(3). (ID). May not be repeated for credit.

ALA 320 / PSYCH 310 / SOC 320. Processes of Intergroup Dialogues Facilitation

Admission by application. Previous participation in ALA 122/PSYCH 122/SOC 122 strongly encouraged. (3). (SS). (R&E). May not be repeated for credit.

ALA 321 / EDUC 329 / PSYCH 311 / SOC 321. Practicum in Facilitating Intergroup Dialogues

PSYCH 310/SOC 320 and permission of instructor. (4). (SS). (R&E). (EXPERIENTIAL). May not be repeated for credit.

ALA 322 / PSYCH 324 / SOC 324. Advanced Practicum in Intergroup Relations

Consent of instructor required. UC 320/PSYCH 310/SOC 320. (1 - 4). (EXPERIENTIAL). May be repeated for a maximum of 8 credits.

ALA 323. IGR Directed Study

(1 - 4). (INDEPENDENT). May be elected eight times for credit.

ALA 324 / EDUC 325. Facilitation in Community Settings

ALA 320, 321 and/or 471. (3). May not be repeated for credit.

ALA 325. Putting Your Education to Work

(1). May not be repeated for credit. Offered mandatory credit/no credit.

ALA 350. Predicting the Future

No credit granted to those who have completed UC 254 Topic #8: "Predicting the Future". (Prerequisites enforced at registration.) (3). (ID). May not be repeated for credit.

ALA 370. Applied Liberal Arts Topics

Students cannot enroll if they have already completed 4 instances of ALA and/or UC 370. (Prerequisites enforced at registration.) (1 - 4). May be elected four times for credit. May be elected more than once in the same term.

ALA 380. Let's Talk Undergraduate Research: Communicating Scholarly Inquiry Within Academia and Beyond

Consent of department required. UC 280 or a significant research experience. (1 - 4). May be repeated for a maximum of 8 credits.

ALA 429 / PSYCH 411 / SOC 471. IGR Senior Capstone: Social Justice in the Real World

Consent of instructor required. UC/SOC 320/321/PSYCH 310/311 or CASC Foundations and 2 related courses in social movements or activism. (3). May not be repeated for credit.

ALA 470. Applied Liberal Arts Topics

Students cannot enroll if they have already completed 4 instances of ALA and/or UC 370. (Prerequisites enforced at registration.) (1 - 4). May be elected four times for credit. May be elected more than once in the same term.

ALA 471. Leadership and Facilitation in Community Building

Consent of instructor required. (1 - 3). May not be repeated for credit.

ALA 472. Advanced Leadership and Facilitation in Community

Consent of instructor required. (1 - 3). May be repeated for a maximum of 8 credits.

University Courses (UC)

UC 101 / NAVSCI 102. Seapower and Maritime Affairs

(2). May not be repeated for credit.

UC 151. First-Year Social Science Seminar

Enrollment restricted to first-year students, including those with sophomore standing. (3). (SS). May not be repeated for credit.

UC 154. First-Year Interdisciplinary Seminar

Enrollment restricted to first-year students, including those with sophomore standing. (3). (ID). May not be repeated for credit.

UC 201 / AERO 201. Team and Leadership Fundamentals I

AERO 102/Permission of Instructor. (1). May not be repeated for credit.

UC 202 / AERO 202. Team and Leadership Fundamentals II

AERO 201/Permission of Instructor. (1). May not be repeated for credit.

UC 203 / MILSCI 201. Innovative Tactical Leadership

(1). May not be repeated for credit. Counts as credit toward LSA degree.

UC 204 / MILSCI 202. Leadership in Changing Environments

Permission of professor. (1). May not be repeated for credit. Counts as credit toward LSA degree.

UC 205 / NAVSCI 203. Leadership and Management

NAVSCI 101,102 OR PI. (3). May not be repeated for credit.

UC 214 / ES 212. Entrepreneurial Business Basics

Non-Ross Sophomores or above (Undergrad only). (Prerequisites enforced at registration.) May not be repeated for credit.

UC 299. Directed Study

Permission of instructor. (1 - 3). (INDEPENDENT). May be repeated for a maximum of 6 credits.

UC 301 / MILSCI 301. Leading Small Organizations I

Permission of Army OEP chair. (2). May not be repeated for credit. Counts for credit toward LSA degree.

UC 302 / MILSCI 302. Leading Small Organizations II

MILSCI 301 or UC 301. (Prerequisites enforced at registration.) Permission of program chairman. May not be repeated for credit. Counts as LSA credit toward LSA degree.

UC 307 / AERO 310. Leading People and Effective Communication I

(3). May not be repeated for credit.

UC 310 / NAVSCI 310. Fundamentals of Warfare

Consent of instructor required. (3). May not be repeated for credit.

UC 390. Disciplinary Study in a Second Language

Fourth-term language proficiency, and permission of instructor. (1). May be elected six times for credit. May be elected more than once in the same term.

UC 401 / MILSCI 401. Leadership and Management

MILSCI 302, UC 302. (Prerequisites enforced at registration.) Permission of chair of Army OEP. May not be repeated for credit.

UC 402 / MILSCI 402. Military Professionalism and Professional Ethics

MILSCI 401, UC 401. (Prerequisites enforced at registration.) May not be repeated for credit.

UC 403 / NAVSCI 402. Leadership and Ethics

NAVSCI 203. Non-ROTC students need permission of instructor. (2). May not be repeated for credit.

UC 410 / NAVSCI 410. Evolution of Warfare

Consent of instructor required. Completion of Naval Science 310 The Fundamentals of Maneuver Warfare. (3). May not be repeated for credit.

UC 415. Methods in Research for the Natural Sciences

Consent of department required. (1). (BS). May be elected twice for credit. May be elected more than once in the same term. Offered mandatory credit/no credit.

UC 500 / BIOMEDE 500. Biomedical Engineering Seminar

(1). (BS). May not be repeated for credit. This course has a grading basis of "S" or "U".

LSA Women's and Gender Studies

Courses In Women's and Gender Studies (WGS)

WGS 150. Humanities Seminars on Women and Gender

Enrollment restricted to first-year students, including those with sophomore standing. (3). (HU). May not be repeated for credit.

WGS 151. Social Science Seminars on Women and Gender

Enrollment restricted to first-year students, including those with sophomore standing. (3). (SS). May not be repeated for credit.

WGS 211 / HISTART 211. Gender and Popular Culture

(4). (HU). May not be repeated for credit.

WGS 212 / HS 225. Global Perspectives on the HIV and AIDS Epidemic

May not be repeated for credit.

WGS 213. Topics in Gender and the Humanities

(1 - 4). (HU). May not be repeated for credit.

WGS 214 / ENGLISH 214. Introduction to LGBTQ+ Literatures

(3). (HU). May not be repeated for credit.

WGS 216 / SOC 216. Thinking Class: Inequality in Media, Bodies, Environment, and More

(3). May not be repeated for credit.

WGS 217 / ENGLISH 215. Introduction to Women and Literature

(3 - 4; 3 in the half-term). (HU). May not be repeated for credit.

WGS 220 / NURS 220 / STS 220. Perspectives in Women's Health

(3). (SS). (R&E). May not be repeated for credit.

WGS 222 / ENGLISH 212. Narratives of Girlhood

(3). (HU). May not be repeated for credit.

WGS 224 / HISTORY 222 / JUDAIC 224. Sex and Sexuality in Jewish History and Culture

(3). (HU). May not be repeated for credit.

WGS 240 / AMCULT 240. Introduction to Women's and Gender Studies

(4; 3 in the half-term). (HU). (R&E). May not be repeated for credit.

WGS 243 / AMCULT 243 / LATINOAM 243. Latina Women in the U.S.

(4; 3 in the half-term). (HU). May not be repeated for credit.

WGS 245. Introduction to Lesbian, Gay, Bisexual and Transgender and Queer+ Studies

(4; 3 in the half-term). (ID). May not be repeated for credit.

WGS 250. Race, Gender and Nation

(3). (SS). (R&E). May not be repeated for credit.

WGS 251 / RCSTP 251. Belonging in College: Race, Class, Gender, and Higher Education

(3). (ID). May not be repeated for credit.

WGS 252. Special Topics Minicourse

(1 - 2). May be repeated for a maximum of 7 credits. A maximum of seven credits of WGS 252 and 253 (WOMENSTD 252 and 253) may be counted toward graduation.

WGS 253. Special Topics

(3 - 4; 3 in the half-term). May be repeated for a maximum of 7 credits. A maximum of seven credits of WGS 252 and 253 (WOMENSTD 252 and 253) may be counted toward graduation.

WGS 257. Special Topics in the Social Sciences

(1 - 4). (SS). May be elected twice for credit.

WGS 258. Special Topics in Interdisciplinary Women's and Gender Studies

(1 - 4). (ID). May be elected twice for credit.

WGS 265. Introduction to Transgender Studies

No credit granted to those who have completed or are enrolled in WGS 258 with topic #1 Introduction to Transgender Studies. (Prerequisites enforced at registration.) (3). (SS). May not be repeated for credit.

WGS 270 / SOC 270. Gender and the Law

(4; 3 in the half-term). (SS). (R&E). May not be repeated for credit.

WGS 275 / AAS 275. Black women in Popular Culture

(4). (ID). May not be repeated for credit.

WGS 291 / PSYCH 291. Introduction to the Psychology of Women

PSYCH 111, 112, 114, 115, 116 or WGS/NURS 220 (WOMENSTD/NURS 220). (Prerequisites enforced at registration.) (4). (SS). (R&E). May not be repeated for credit.

WGS 296 / HISTORY 296 / STS 296. My Body, My Choice: A History of Reproductive Medicine in the U.S.

(4; 3 in the half-term). May not be repeated for credit.

WGS 303 / CLCIV 303 / HISTORY 303. Women in the Ancient Mediterranean

(3). (HU). May not be repeated for credit.

WGS 304 / AAS 304. Gender and Immigration: Identity, Race, and Place

The seminar is intended for junior and senior undergraduates but sophomores are also welcome. (3). (SS). May not be repeated for credit.

WGS 305 / ALA 306. Interdisciplinary and Intersectional LGBTQ Health

(3). (ID). (R&E). May not be repeated for credit.

WGS 306 / HISTORY 304 / INTLSTD 304 / LACS 304. Maternal and Infant Health in Latin American History

(3). (ID). May not be repeated for credit.

WGS 307 / ANTHRCUL 327 / RCSTP 327 / STS 327. Critical Theory in Medicine and Healing

One course in ANTHRCUL or RCSSCI or RCSTP or WGS/AMCULT 240 (WOMENSTD/AMCULT 240) or WGS (WOMENSTD) with an SS designation. (4). (SS). May not be repeated for credit.

WGS 310. Health, Gender, and Performance

(3). (HU). May not be repeated for credit.

WGS 312. Queering U.S. Immigration History

One course in Women's & Gender Studies or permission of the instructor. (Prerequisites enforced at registration.) (3). May not be repeated for credit.

WGS 313. Special Topics in Gender and the Humanities

(1 - 4). (HU). May be elected twice for credit.

WGS 314 / ENGLISH 314. Gender and Sexuality Studies in Literature

(3 - 4; 2 - 3 in the half-term). May be repeated for a maximum of 6 credits. May be elected more than once in the same term.

WGS 315 / ENGLISH 315. Women and Literature

(3 - 4; 3 in the half-term). (HU). May be repeated for a maximum of 6 credits.

WGS 317 / MIDEAST 344. Sex and Gender in the Ancient Middle East

(3). (ID). May not be repeated for credit.

WGS 322. Black Feminist Approaches to Health

WGS/AMCULT 240 (WOMENSTD/AMCULT 240) Intro to Women's Studies or WGS/NURS 220 (WOMENSTD/NURS 220) Perspectives in Women's Health or WGS 250 (WOMENSTD 250) Race, Gender and Nation. (3). May not be repeated for credit.

WGS 323 / AAS 323 / HISTORY 388. Black Feminist Thought and Practice

(3). (HU). May not be repeated for credit.

WGS 324 / ANTHRCUL 325. Childbirth & Culture

Sophomore standing. (4). (SS). May not be repeated for credit.

WGS 325 / AAS 329 / ENGLISH 334. Writing Sex: Contemporary Black Women Writers

(3). (HU). May not be repeated for credit.

WGS 326 / AMCULT 319 / POLSCI 304. Disability: A Democratic Dilemma

No credit for POLSCI 495 with the topic Disability: A Democratic Dilemma. (Prerequisites enforced at registration.) (3). (R&E). May not be repeated for credit.

WGS 327 / HISTORY 327. The History of Sexuality

(4; 3 in the half-term). (HU). May not be repeated for credit.

WGS 330. Feminist Thought

WGS/AMCULT 240 (WOMENSTD/AMCULT 240); OR WGS 250 (WOMENSTD 250); OR WGS/NURS 220 (WOMENSTD/NURS 220). (Prerequisites enforced at registration.) (3). May not be repeated for credit.

WGS 331. Feminist Theoretical Perspectives in Gender and Health

WGS/NURS 220 (WOMENSTD/NURS 220) Perspectives in Women's Health. (Prerequisites enforced at registration.) (3). May not be repeated for credit.

WGS 332 / ASIAN 342. Gender and Power in Southeast Asia

(3). (HU). May not be repeated for credit.

WGS 333. Biomedical Knowledge, Science, and Power

(3). (ID). May not be repeated for credit.

WGS 337 / AAS 337 / HISTORY 337. Black Women in the U.S., Part II: Contemporary Perspective in the 20th and 21st Centuries

AAS 201. (3). (SS). May not be repeated for credit. No credit granted to those who have completed or are enrolled in AAS 336.

WGS 339 / AAS 335 / ANTHRCUL 335. Medical Anthropologies of Kinship, Relatedness, and the Human

(3). (SS). May not be repeated for credit.

WGS 340 / AAS 341 / HISTORY 342. Black Queer Histories

At least one course in Women's and Gender Studies, Afroamerican and African Studies, or History. (3). (HU). May not be repeated for credit.

WGS 341. Special Topics in LGBTQ Studies

WGS/AMCULT 240 (WOMENSTD/AMCULT 240) or WGS 245 (WOMENSTD 245). (3 - 4). May be elected twice for credit. May be elected more than once in the same term.

WGS 342. Special Topics in Gender and Health

WGS/NURS 220 (WOMENSTD/NURS 220) or WGS/AMCULT 240 (WOMENSTD/AMCULT 240). (3 - 4). May be elected twice for credit. May be elected more than once in the same term.

WGS 343. Special Topics in Gender, Race, and Ethnicity in the U.S.

WGS/AMCULT 240 (WOMENSTD/AMCULT 240). (3 - 4). May be elected twice for credit. May be elected more than once in the same term.

WGS 344. Special Topics in Gender, Culture, and Representation

WGS/AMCULT 240 (WOMENSTD/AMCULT 240). (3 - 4). May be elected twice for credit. May be elected more than once in the same term.

WGS 345. Special Topics in Gender in a Global Context

WGS/AMCULT 240 (WOMENSTD/AMCULT 240). (3 - 4). May be elected twice for credit. May be elected more than once in the same term.

WGS 347 / AAS 317 / ENGLISH 307. Threads: What Does Clothing Have to Do with Race, Culture, Politics, and the Environment?

(3). (HU). May not be repeated for credit.

WGS 348 / SOC 345. Sociology of Sexualities

One introductory course in Sociology. (4; 3 in the half-term). (SS). May not be repeated for credit.

WGS 350. Nonprofit Management, Community Engagement, and Feminist Practice

WGS/AMCULT 240 (WOMENSTD/AMCULT 240) or WGS/NURS 220 (WOMENSTD/NURS 220). (4; 3 - 4 in the half-term). (EXPERIENTIAL). May not be repeated for credit.

WGS 351. Leading Feminism

One course in Women's & Gender Studies. WGS 350 (WOMENSTD 350) is recommended, but not required. (4; 3 in the half-term). (EXPERIENTIAL). May not be repeated for credit.

WGS 352 / ASIAN 352. Gender, Sexuality, and Power in Premodern China

At least one course in Asian studies or Women's studies. (3). (HU). May not be repeated for credit.

WGS 353. Helping Hands: The Science of Doulas

(3). May not be repeated for credit.

WGS 358. Selected Topics in Interdisciplinary Women's and Gender Studies

(1 - 4). (ID). May be elected twice for credit.

WGS 365 / AAS 365 / ANTHRCUL 365. Global Perspectives on Gender, Health, and Reproduction

One course in either Women's & Gender Studies or AAS. (3). (SS). May not be repeated for credit.

WGS 366 / AMCULT 366 / HISTORY 353. Sex and Sexuality in U.S. Popular Culture

(3). (HU). May not be repeated for credit.

WGS 374. Gender, Race, and Incarceration

WGS/NURS 220 (WOMENSTD/NURS 220) Perspectives in Women's Health, or WGS/AMCULT 240 (WOMENSTD/AMCULT 240) Intro to Women's Studies, or WGS 250 (WOMENSTD 250) Race, Gender and Nation. (3). May not be repeated for credit.

WGS 375 / HISTORY 375. A History of Witchcraft: The 1692 Salem Trials in Historical and Cross-Cultural Perspective

(4). (HU). May not be repeated for credit.

WGS 376 / JUDAIC 376. Women and the Bible

(3). (HU). May not be repeated for credit.

WGS 377. Topics in Gender and Social Science

(1 - 4; 1 - 3 in the half-term). (SS). May be elected twice for credit. May be elected more than once in the same term.

WGS 380. Special Topics

WGS 240 (WOMENSTD 240). (1 - 4). May be repeated for a maximum of 7 credits. May be elected more than once in the same term.

WGS 384. Independent Research

Consent of department required. WGS/AMCULT 240 (WOMENSTD/AMCULT 240) and one additional Women's & Gender Studies course. (1 - 3). (INDEPENDENT). May be elected six times for credit.

WGS 385. Directed Reading

Consent of instructor required. WGS/AMCULT 240 (WOMENSTD/AMCULT 240), and one additional Women's & Gender Studies course. (1 - 3). (INDEPENDENT). May be repeated for a maximum of 9 credits.

WGS 389. Junior Honors Seminar

Consent of department required. (3). May not be repeated for credit.

WGS 392 / AAS 392 / AMCULT 392. Mad, Bad, and Sad: Mental Health in the U.S.

(3). (HU). May not be repeated for credit.

WGS 397 / HISTORY 397 / MIDEAST 387. Religion and Politics in Contemporary Iran

(3). (ID). May not be repeated for credit.

WGS 400. Women's Reproductive Health

Upperclass standing. (3). May not be repeated for credit.

WGS 404 / HS 404. Gender Based Violence: From Theory to Action

May not be repeated for credit.

WGS 408 / ASIAN 408 / HISTORY 438. Gender and Health in East Asia: Historical and Contemporary Perspectives

(3). May not be repeated for credit.

WGS 410. Reproductive Justice: Legal and Ethical Issues

WGS/NURS 220 (WOMENSTD/NURS 220), WGS/AMCULT 240 (WOMENSTD/AMCULT 240), WGS/SOC 270 (WOMENSTD/SOC 270), or WGS 400 (WOMENSTD 400). (3). May not be repeated for credit. Rackham credit requires additional work.

WGS 411 / AMCULT 411. Rednecks, Queers, and Country Music

One course in Women's & Gender Studies or American Culture. (3). May not be repeated for credit.

WGS 412. Eco/Queer/Feminist Art Practices: Experiential Approaches

At least one prior course in Women's and Gender Studies. (3). May not be repeated for credit. Rackham credit requires additional work.

WGS 414 / ENGLISH 415. Studies in Women and Literature

(3). May not be repeated for credit.

WGS 415. LGBTQ Reproduction

(3). May not be repeated for credit.

WGS 418 / GERMAN 418 / HISTORY 418. The German Discovery of Sex

No credit in GERMAN 449 or HISTORY 481 or WGS 431 with the topic "The German Discovery of Sex.". (Prerequisites enforced at registration.) (3). May not be repeated for credit.

WGS 422 / POLSCI 401. Feminist Political Theory

Junior standing. (3). May not be repeated for credit.

WGS 428 / ANTHRCUL 428 / RCSTP 428. Sex Panics in the US and UK since 1890

One course in WGS (WOMENSTD) or ANTHRCUL or RCSSCI, SOC, or HISTORY. (3). May not be repeated for credit.

WGS 431. Advanced Topics in LGBTQ Studies

WGS 245 (WOMENSTD 245) or WGS/AMCULT 295 (WOMENSTD/AMCULT 295). (3 - 4). May be elected twice for credit. May be elected more than once in the same term. Rackham credit requires additional work.

WGS 432. Advanced Topics in Gender and Health

WGS/NURS 220 (WOMENSTD 220/NURS 220). (3 - 4). May be elected twice for credit. May be elected more than once in the same term. Rackham credit requires additional work.

WGS 433. Advanced Topics in Gender, Race and Ethnicity in the U.S.

WGS/AMCULT 240 (WOMENSTD/AMCULT 240). (3 - 4). May be elected twice for credit. May be elected more than once in the same term. Rackham credit requires additional work.

WGS 434. Advanced Topics in Gender, Culture, and Representation

WGS/AMCULT 240 (WOMENSTD/AMCULT 240). (3 - 4). May be elected twice for credit. Rackham credit requires additional work.

WGS 435. Advanced Topics in Gender in a Global Context

WGS/AMCULT 240 (WOMENSTD/AMCULT 240). (3 - 4). May be elected twice for credit. Rackham credit requires additional work.

WGS 439 / AAS 438 / HISTORY 439. Black Intimacies in the U.S.

At least one class in Women's and Gender Studies, History, or Afroamerican and African Studies. (3). May not be repeated for credit.

WGS 441. Senior Honors Seminar I

Consent of department required. (1). May not be repeated for credit. Offered mandatory credit/no credit.

WGS 442. Senior Honors Seminar II

Consent of department required. (1). May not be repeated for credit. Offered mandatory credit/no credit.

WGS 446 / ANTHRCUL 446. Sex and the City: Urban Geography and Sexual Locations

At least one course in Anthropology, History, Women's & Gender Studies, Sociology, LGBTQ Studies, or Urban Studies/Urban Planning. (3). May not be repeated for credit.

WGS 447 / SOC 447. Sociology of Gender

One introductory course in SOC or WGS. (3). May not be repeated for credit.

WGS 449 / SOC 445. Diagnosis, Sex, and Society

(3). May not be repeated for credit. Rackham credit requires additional work.

WGS 450 / INTLSTD 450 / MIDEAST 450. Transnational Feminisms

At least one prior course in Women's and Gender Studies, Middle East Studies, or International Studies. (3). May not be repeated for credit. Rackham credit requires additional work.

WGS 451 / SOC 451. Women, Inequality, and Work

WGS/AMCULT 240 (WOMENSTD/AMCULT 240) or SOC 100, and one other course in SOC or Women's & Gender Studies. (3). May not be repeated for credit.

WGS 454 / ANTHRCUL 454 / HISTORY 474. What is Marriage?: Histories and Structures of Marital Institutions

One course in Women's and Gender Studies, Cultural Anthropology, or History. (3). May not be repeated for credit. Rackham credit requires additional work.

WGS 461 / FTVM 461. Feminist and Queer Film Theory

WGS/AMCULT 240 (WOMENSTD/AMCULT 240); and junior standing. (3). May not be repeated for credit.

WGS 462 / SPANISH 432. Gender, Sexuality, and Culture

Nine credits chosen between SPANISH 279 and 399; or two RCLANG 324 and six credits chosen between SPANISH 279 and 399. (Prerequisites enforced at registration.) (3). May be repeated for a maximum of 6 credits. May be elected more than once in the same term.

WGS 465 / PSYCH 488 / SOC 465. Sociology of Deviance: From Sin to Sickness

One introductory course in Sociology. (4; 3 in the half-term). May not be repeated for credit.

WGS 482. Special Topics Minicourse

One course in Women's & Gender Studies. (1 - 2). May be repeated for a maximum of 7 credits. A maximum of 7 credits of WGS 482 (WOMENSTD 482) and WGS 483 (WOMENSTD 483) may be counted toward graduation.

WGS 483. Special Topics

May be repeated for a maximum of 7 credits. May be elected more than once in the same term.

WGS 486 / PHIL 486. Feminist Philosophy

Two courses in either Philosophy or Women's & Gender Studies or permission of instructor. (3). May not be repeated for credit.

WGS 487 / MIDEAST 441. Gender and Society in Ancient Egypt

Some familiarity with Egypt is helpful. (3). May not be repeated for credit.

WGS 490. Honors Thesis

Consent of department required. (3). (INDEPENDENT). May not be repeated for credit.

WGS 491. Honors Thesis

Consent of department required. (3). (INDEPENDENT). May not be repeated for credit.

CAUP Taubman College of Arch + Urban Planning

Courses In Architecture (ARCH)

ARCH 212 / HISTART 212. Understanding Architecture

(3). May not be repeated for credit. W.

ARCH 357 / ENVIRON 357 / URP 357. Architecture, Sustainability and the City: Ideas, Forces and People Shaping the Built Environment

(3). (HU). May not be repeated for credit.

ARCH 411 / DIGITAL 411. Becoming Digital

May not be repeated for credit.

ARCH 423 / ENVIRON 370 / URP 423. Introduction to Urban and Environmental Planning

(3 - 5). May not be repeated for credit.

Courses In Urban and Regional Planning (URP)

URP 357 / ARCH 357 / ENVIRON 357. Architecture, Sustainability and the City: Ideas, Forces and People Shaping the Built Environment

(HU). May not be repeated for credit.

URP 423 / ARCH 423 / ENVIRON 370. Introduction to Urban and Environmental Planning

May not be repeated for credit.

CoE Biomedical Engineering

Courses In Biomedical Engineering (BIOMEDE)

BIOMEDE 410 / MACROMOL 410 / MATSCIE 410. Design and Applications of Biomaterials

[MATSCIE 220 or 250 (C- or better)] or Graduate. (Prerequisites enforced at registration.) (BS). May not be repeated for credit.

BIOMEDE 500 / UC 500. Biomedical Engineering Seminar

(1). (BS). May not be repeated for credit. This course has a grading basis of "S" or "U".

CoE Chemical Engineering

Courses In Chemical Engineering (CHE)

CHE 412 / MACROMOL 412 / MATSCIE 412. Polymeric Materials

[MATSCIE 220 or 250 (C- or better)] or Graduate. (Prerequisites enforced at registration.) (BS). May not be repeated for credit.

CHE 512 / MACROMOL 512 / MATSCIE 512. Polymer Physics

Senior or graduate standing in engineering or physical science. (3). (BS). May not be repeated for credit.

CoE Civil and Environmental Engineering

Courses In Civil & Environmental Engin (CEE)

CEE 307 / ENVIRON 407. Sustainable Cities

Junior or Senior standing and two environmental science classes. (3). (BS). May not be repeated for credit.

CEE 581 / EARTH 581. Aquatic Chemistry

(CHEM 130; C- or better, and Senior Standing) or Graduate Standing. (Prerequisites enforced at registration.) CHEM 130 and senior or graduate standing. (BS). May not be repeated for credit.

CoE Climate and Space

Courses In Climate & Meteorology (CLIMATE)

CLIMATE 102 / EARTH 122 / ENVIRON 102. Extreme Weather

(3). (NS). (BS). May not be repeated for credit.

CLIMATE 105 / CHEM 105 / ENSCEN 105 / ENVIRON 105 / STS 105. Our Changing Atmosphere

(3). (NS). (BS). May not be repeated for credit.

CLIMATE 171 / BIOLOGY 110 / EARTH 171 / ENVIRON 110 / RCNSCI 110. Introduction to Global Change: The Science Behind Sustainability

(4). (NS). (BS). May not be repeated for credit.

CLIMATE 172 / EARTH 172 / ENVIRON 111 / GEOG 111. Climate Change and Sustainability: Environmental Challenges of the 21st Century

(4). (ID). (BS). (QR/2). May not be repeated for credit.

CLIMATE 320 / EARTH 320 / SPACE 320. Earth Systems Evolution

MATH 115, MATH 116; (C or better). (3). (BS). May not be repeated for credit.

CLIMATE 321 / EARTH 321 / SPACE 321. Earth Systems Dynamics

CLIMATE/SPACE 320; Preceded or accompanied by MATH 215 and MATH 216. (3). (BS). May not be repeated for credit.

CLIMATE 323 / EARTH 323 / SPACE 323. Earth System Analysis

(4). May not be repeated for credit.

CLIMATE 350 / EARTH 350 / SPACE 350. Atmospheric Thermodynamics

MATH 216 or 256 or 286 or 316; (C or better, No OP/F). (Prerequisites enforced at registration.) May not be repeated for credit.

CLIMATE 380 / EARTH 381 / SPACE 380. Introduction to Atmospheric Radiation

MATH 216 or 256 or 286 or 316; (C or better, No OP/F). (Prerequisites enforced at registration.) May not be repeated for credit.

CLIMATE 401 / EARTH 401. Geophysical Fluid Dynamics

CLIMATE 323, SPACE 323, or EARTH 323 (or GEOSCI 323); MATH 215 and 216 and PHYSICS 240. (3). May not be repeated for credit.

CLIMATE 410 / EARTH 409. Earth System Modeling

CLIMATE 320, CLIMATE 321, SPACE 320, SPACE 321. (4). (BS). May not be repeated for credit.

CLIMATE 411 / EARTH 411. Cloud and Precipitation Processes

CLIMATE 350, SPACE 350, MATH 216. (3). May not be repeated for credit.

CLIMATE 414 / EARTH 414. Weather Systems

CLIMATE 350, SPACE 350, CLIMATE 401 or CLIMATE 551. (3). May not be repeated for credit.

CLIMATE 421 / EARTH 421 / ENVIRON 426. Introduction of Physical Oceanography

MATH 115 and 116, and an introductory science course. (3). (BS). May not be repeated for credit. Rackham credit requires additional work.

CLIMATE 440 / EARTH 454. Meteorological Analysis Laboratory

CLIMATE 350, SPACE 350, CLIMATE 401. (4). May not be repeated for credit.

CLIMATE 451 / EARTH 457 / ENSCEN 451. Atmospheric Dynamics I

CLIMATE 401 or MATH 450. (4). (BS). May not be repeated for credit.

CLIMATE 474 / EARTH 474. Ice Sheets, Glaciers and Climate Change

MATH 115 and 116. May not be repeated for credit.

Courses In Space Science & Engineering (SPACE)

SPACE 103 / ASTRO 183. Introduction to Space Weather

(3). (NS). (BS). May not be repeated for credit.

SPACE 320 / CLIMATE 320 / EARTH 320. Earth Systems Evolution

MATH 115, MATH 116; (C or better). (3). (BS). May not be repeated for credit.

SPACE 321 / CLIMATE 321 / EARTH 321. Earth Systems Dynamics

CLIMATE/SPACE 320; Preceded or accompanied by MATH 215 and MATH 216. (3). (BS). May not be repeated for credit.

SPACE 323 / CLIMATE 323 / EARTH 323. Earth System Analysis

(4). May not be repeated for credit.

SPACE 350 / CLIMATE 350 / EARTH 350. Atmospheric Thermodynamics

MATH 216 or 256 or 286 or 316; (C or better, No OP/F). (Prerequisites enforced at registration.) May not be repeated for credit.

SPACE 370 / EARTH 370. Solar-Terrestrial Relations

MATH 216 and PHYSICS 240. (4). May not be repeated for credit.

SPACE 380 / CLIMATE 380 / EARTH 381. Introduction to Atmospheric Radiation

MATH 216 or 256 or 286 or 316; (C or better, No OP/F). (Prerequisites enforced at registration.) May not be repeated for credit.

CoE Electrical Engineering and Computer Science

Courses In Electrical Engineering and Computer Science (EECS)

EECS 110. Discover Computer Science

(BS). May not be repeated for credit.

EECS 183. Elementary Programming Concepts

No Credit in EECS 280 or 281. (Prerequisites enforced at registration.) (4). (MSA). (BS). (QR/1). May not be repeated for credit. Credit is granted for only one course among EECS 183 or ENGR 101. Credit is granted for only one of ENGR 151 and EECS 183. Not intended for Engineering students (who should take ENGR 101), nor for Computer Science majors in LSA who qualify to enter EECS 280. F, W, Sp.

EECS 201. Computer Science Pragmatics

[ENGR 101 or 151 or EECS 180 or 183 or ROB 102 or (preceded or accompanied by EECS 280 or 281)]; (C or better; No OP/F). (Prerequisites enforced at registration.) (BS). May not be repeated for credit.

EECS 203. Discrete Math

MATH 115 or 116 or 119 or 120 or 121 or 156 or 175 or 176 or 185 or 186 or 214 or 215 or 216 or 217 or 255 or 256 or 285 or 286 or 295 or 296 or 417 or 419; (C or better, No OP/F); AND [less than 2 previous elections of EECS 203 (incl. W, I, VI, & AUD)]. (Prerequisites enforced at registration.) (MSA). (BS). (QR/1). May not be repeated for credit. F, W. Students may attempt this class a maximum of two times. Students will have to see an EECS program advisor in order to register a third time. The advisor may issue an override in extenuating circumstances.

EECS 270. Introduction to Logic Design

(EECS 180 or 183 or EECS ENGR 101 or 151 or ROB 102 or preceded or accompanied by EECS 280); (C or better; No OP/F). (Prerequisites enforced at registration.) (MSA). (BS). May not be repeated for credit. F, W.

EECS 280. Programming and Introductory Data Structures

ENGR 101 or 151 or EECS 180 or 183 or ROB 102; (C or better, No OP/F). And fewer than 2 previous elections of EECS 280 (incl. grades of W & I). (Prerequisites enforced at registration.) MATH 115. (MSA). (BS). May not be repeated for credit. F, W. Students may attempt this class a maximum of two times. Students will have to see an EECS program advisor in order to register a third time. The advisor may issue an override in extenuating circumstances.

EECS 281. Data Structures and Algorithms

[(EECS 203 or MATH 465 or 565) and EECS 280; (C or better, No OP/F)] and [Fewer than two previous elections of EECS 281 (incl. grades of

W, I, VI, and AUD)]. (Prerequisites enforced at registration.) Minimum GPA of 2.5 over the best grade for each enforced prerequisite. (BS). May not be repeated for credit. F, W. Students may attempt this class a maximum of two times. Students will have to see an EECS program advisor in order to register a third time. The advisor may issue an override in extenuating circumstances.

EECS 367 / ROB 380. Introduction to Autonomous Robotics

EECS 281 and (MATH 214 or 217 or 296 or 417 or 419 or ROB 101); (C or better; no OP/F). EECS 281 and (MATH 214 or 217 or 296 or 417 or 419 or ROB 101); (C or better; no OP/F). Enrollment in one minor elective allowed for Computer Science Minors. (Prerequisites enforced at registration.) (BS). May not be repeated for credit.

EECS 370. Introduction to Computer Organization

(EECS 203 or 270 or MATH 465 or 565) and EECS 280; (C or better, No OP/F). (Prerequisites enforced at registration.) (BS). May not be repeated for credit. F, W.

EECS 373. Introduction to Embedded System Design

(EECS 270 or CMPTRSC 270) & (EECS 370 or CMPTRSC 370) and Junior or Above; (C or better, No OP/F). (Prerequisites enforced at registration.) (BS). May not be repeated for credit. F, W.

EECS 376. Foundations of Computer Science

EECS 280 and (EECS 203, MATH 465, or 565); (C or better, No OP/F). (Prerequisites enforced at registration.) (BS). May not be repeated for credit. F, W.

EECS 388. Introduction to Computer Security

EECS 281; (C or better, No OP/F). Enrollment in one minor elective allowed for Computer Science Minors. (Prerequisites enforced at registration.) EECS 201 and 370. (BS). May not be repeated for credit.

EECS 390. Programming Paradigms

EECS 281; (C or better, No OP/F). Enrollment in one minor elective allowed for Computer Science Minors. (Prerequisites enforced at registration.) (BS). May not be repeated for credit.

EECS 398. Special Topics

Permission of instructor. (1 - 4). (BS). May be repeated for credit.

EECS 427. Very Large Scale Integrated Design I

EECS 270 and 312; (C or better; no OP/F) or Graduate Standing. (Prerequisites enforced at registration.) (BS). May not be repeated for credit. F, W.

EECS 440. Extended Reality for Social Impact

EECS 281; (C or better, No OP/F). (Prerequisites enforced at registration.) (BS). May not be repeated for credit.

EECS 441. Mobile App Development for Entrepreneurs

Senior standing and EECS 281 and at least 4 credit hours of Upper Level Electives from list in Computer Science or Computer Engineering; (C or better, No OP/F). (Prerequisites enforced at registration.) (BS). May not be repeated for credit.

EECS 442. Computer Vision

[(EECS 281 and (MATH 214 or 217 or 296 or 417 or 419 or ROB 101)); (C or better, No OP/F)] or graduate standing. (Prerequisites enforced at registration.) (BS). May not be repeated for credit. F (Alternate years).

EECS 443. Senior Thesis

Senior Only. (Prerequisites enforced at registration.) (BS). May not be repeated for credit.

EECS 445. Introduction to Machine Learning

[(EECS 281 and (MATH 214 or 217 or 296 or 417 or 419 or ROB 101)); (C or better; No OP/F)]. Enrollment in one minor elective allowed for Computer Science Minors. (Prerequisites enforced at registration.) STATS 250 or equivalent. (BS). May not be repeated for credit.

EECS 448. Applied Machine Learning for Modeling Human Behavior

[(EECS 281 and (MATH 214 or 217 or 296 or 417 or 419 or ROB 101)); (C or better; No OP/F)] or Graduate Standing in CSE. (Prerequisites enforced at registration.) (BS). May not be repeated for credit.

EECS 449. Conversational Artificial Intelligence

EECS 281; (C or better, No OP/F). (Prerequisites enforced at registration.) EECS 485 or EECS 493. (BS). May not be repeated for credit.

EECS 467. Autonomous Robotics Design Experience

EECS 281 and (MATH 214 or 217 or 296 or 417 or 419 or ROB 101) and (EECS 367 or 373); (C or better, No OP/F). (Prerequisites enforced at registration.) (BS). May not be repeated for credit.

EECS 470. Computer Architecture

[(EECS 270 or CMPTRSC 270) and (EECS 370 or CMPTRSC 370)]; (C or better, No OP/F) or Graduate Standing. (Prerequisites enforced at registration.) (BS). May not be repeated for credit. F, W.

EECS 471. Applied Parallel Programming with GPUs

[EECS 281 and 370; (C or better, No OP/F)] or Graduate Standing in CSE. Enrollment in one minor elective allowed for Computer Science Minors. (Prerequisites enforced at registration.) (BS). May not be repeated for credit.

EECS 473. Advanced Embedded Systems

[EECS 373 & (281 or 215); (C or better, No OP/F)] or Graduate Standing. (Prerequisites enforced at registration.) (BS). May not be repeated for credit.

EECS 475. Introduction to Cryptography

[EECS 376; (C or better, No OP/F)] or Graduate Standing in CSE. Enrollment in one minor elective allowed for Computer Science Minors. (Prerequisites enforced at registration.) (BS). May not be repeated for credit. F. (Alternating Years).

EECS 476. Data Mining

[EECS 281 and (MATH 214 or 217 or 296 or 417 or 419 or ROB 101); (C>, No OP/F)] or [EECS 403; (B or better, No OP/F)] or Graduate Standing in CSE. Enrollment in one minor elective allowed for Computer Science Minors. (Prerequisites enforced at registration.) (BS). May not be repeated for credit.

EECS 477. Introduction to Algorithms

EECS 281 & 376; (C or better, No OP/F). Enrollment in one minor elective allowed for Computer Science Minors. (Prerequisites enforced at registration.) (BS). May not be repeated for credit. F.

EECS 478. Logic Circuit Synthesis and Optimization

[(EECS 203 or 303 or CMPTRSC 203 or 303) and (EECS 270 or CMPTRSC 270); C or better No OP/F, and Senior] or Graduate Standing. (Prerequisites enforced at registration.) (BS). May not be repeated for credit. F, W.

EECS 481. Software Engineering

[EECS 281; (C or better, No OP/F)] or Graduate Standing in CSE. Enrollment in one minor elective allowed for Computer Science Minors. (Prerequisites enforced at registration.) (BS). May not be repeated for credit. F, W.

EECS 482. Introduction to Operating Systems

EECS 281 and 370; (C or better, No OP/F) or Graduate Standing in CSE. Enrollment in one minor elective allowed for Computer Science Minors. (Prerequisites enforced at registration.) (BS). May not be repeated for credit. F, W.

EECS 483. Compiler Construction

EECS 281 and 370; (C or better, No OP/F) or Graduate Standing. Enrollment in one minor elective allowed for Computer Science Minors. (Prerequisites enforced at registration.) (BS). May not be repeated for credit. F.

EECS 484. Database Management Systems

EECS 281; (C or better, no OP/F) or 403; (B or better, no OP/F) or Graduate Standing in CSE. Enrollment in one minor elective allowed for Computer Science Minors. (Prerequisites enforced at registration.) (BS). May not be repeated for credit. F, W.

EECS 485. Web Systems

EECS 281; (C or better, No OP/F) or Graduate Standing in CSE. Enrollment in one minor elective allowed for Computer Science Minors. (Prerequisites enforced at registration.) (BS). May not be repeated for credit. W.

EECS 486. Information Retrieval and Web Search

EECS 281; (C or better, No OP/F) or Graduate Standing in CSE. Enrollment in one minor elective allowed for Computer Science Minors. (Prerequisites enforced at registration.) (BS). May not be repeated for credit.

EECS 487. Introduction to Natural Language Processing

EECS 281; (C or better, No OP/F). Enrollment in one minor elective allowed for Computer Science Minors. (Prerequisites enforced at registration.) (BS). May not be repeated for credit.

EECS 489. Computer Networks

(EECS 281 and EECS 370); (C or better, No OP/F) or Graduate Standing in CSE. Enrollment in one minor elective allowed for Computer Science Minors. (Prerequisites enforced at registration.) (BS). May not be repeated for credit. W.

EECS 490. Programming Languages

EECS 281; (C or better, No OP/F) or Graduate Standing in CSE. Enrollment in one minor elective allowed for Computer Science Minors. (Prerequisites enforced at registration.) (BS). May not be repeated for credit. W.

EECS 491. Introduction to Distributed Systems

EECS 281; (C or better, No OP/F) or Graduate Standing in CSE. Enrollment in one minor elective allowed for Computer Science Minors. (Prerequisites enforced at registration.) (BS). May not be repeated for credit.

EECS 492. Introduction to Artificial Intelligence

EECS 281; (C or better, No OP/F). Enrollment in one minor elective allowed for Computer Science Minors. (Prerequisites enforced at registration.) (BS). May not be repeated for credit. F, W.

EECS 493. User Interface Development

EECS 281; (C or better, No OP/F) or Graduate Standing in CSE. Enrollment in one minor elective allowed for Computer Science Minors. (Prerequisites enforced at registration.) (BS). May not be repeated for credit. W.

EECS 494. Computer Game Design and Development

EECS 281; (C or better, No OP/F). (Prerequisites enforced at registration.) (BS). May not be repeated for credit. F.

EECS 495. Accessible Computing

EECS 281; (C or better, No OP/F). (Prerequisites enforced at registration.) (BS). May not be repeated for credit.

EECS 496. Major Design Experience-Professionalism

Senior or Above. (Prerequisites enforced at registration.) (BS). May not be repeated for credit. F, W.

EECS 497. Human-Centered Software Design and Development

EECS 281; (C or better, No OP/F). (Prerequisites enforced at registration.) (BS). May not be repeated for credit. F, W.

EECS 498. Special Topics

Permission of instructor. (1 - 4). (BS). May be repeated for credit.

EECS 499. Advanced Directed Study

Senior or Above. (Prerequisites enforced at registration.) Senior standing in EECS. (BS). (INDEPENDENT). May be repeated for credit.

EECS 542. Advanced Topics in Computer Vision

EECS 442 or EECS 504 or permission of instructor. (3). (BS). May not be repeated for credit. F in odd years.

EECS 567 / MECHENG 567 / MFG 567 / ROB 510. Robotic Kinematics and Dynamics

Graduate standing or permission of instructor. (3). (BS). May not be repeated for credit. W.

EECS 570. Parallel Computer Architecture

EECS 470. (4). (BS). May not be repeated for credit. F.

CoE Environmental Sciences and Engineering**Courses In Environmental Sciences and Engineering (ENSCEN)****ENSCEN 105 / CHEM 105 / CLIMATE 105 / ENVIRON 105 / STS 105. Our Changing Atmosphere**

(3). (NS). (BS). May not be repeated for credit.

ENSCEN 451 / CLIMATE 451 / EARTH 457. Atmospheric Dynamics I

CLIMATE 401 or MATH 450. (4). (BS). May not be repeated for credit.

CoE Industrial and Operations Engineering**Courses In Industrial and Operations Engineering (IOE)**

IOE 265. Probability and Statistics for Engineers

[(MATH 116 or 121 or 156 or 176 or 186 or 296) and (ENGR 101 or 101X or 151 or EECS 183 or 180)]; (C- or better). (Prerequisites enforced at registration.) (BS). May not be repeated for credit.

IOE 466 / MFG 466. Statistical Quality Control

[IOE 366 or STATS 401; (C- or better)] or Graduate. (Prerequisites enforced at registration.) (BS). May not be repeated for credit.

IOE 510 / MATH 561 / TO 518. Linear Programming I

MATH 217, 417, or 419. (3). (BS). May not be repeated for credit. F, W, Sp.

IOE 511 / MATH 562. Continuous Optimization Methods

MATH 217, 417, or 419. (3). (BS). May not be repeated for credit. F.

CoE Macromolecular Science and Engineering**Courses In Macromolecular Science (MACROMOL)****MACROMOL 410 / BIOMEDE 410 / MATSCIE 410. Design and Applications of Biomaterials**

[MATSCIE 220 or 250 (C- or better)] or Graduate. (Prerequisites enforced at registration.) (BS). May not be repeated for credit.

MACROMOL 412 / CHE 412 / MATSCIE 412. Polymeric Materials

[MATSCIE 220 or 250 (C- or better)] or Graduate. (Prerequisites enforced at registration.) (BS). May not be repeated for credit.

MACROMOL 512 / CHE 512 / MATSCIE 512. Polymer Physics

Senior or graduate standing in engineering or physical science. (3). (BS). May not be repeated for credit.

MACROMOL 514 / MATSCIE 514 / MFG 514. Composite Materials

MATSCIE 220 or 250; (C- or better). (Prerequisites enforced at registration.) (BS). May not be repeated for credit. F.

MACROMOL 515 / MATSCIE 515. Mechanical Behavior of Solid Polymeric Materials

MECHENG 211 and CHE 412 or MATSCIE 412 or MACROMOL 412 or permissions of instructor. (3). (BS). May not be repeated for credit.

MACROMOL 530 / MATSCIE 517. Advanced Functional Polymers: Molecular Design and Applications

MATSCI 412; (C- or better). Consent of instructor required. (Prerequisites enforced at registration.) (BS). May not be repeated for credit.

MACROMOL 538 / CHEM 538. Organic Chemistry of Macromolecules

CHEM 215/216, and CHEM 230 or 260. (3). (BS). May not be repeated for credit. F.

CoE Materials Science and Engineering**Courses In Materials Science Engineering (MATSCIE)****MATSCIE 281 / ANTHRARC 281. Making Things: Three Million Years of Materials and Culture**

(SS). (BS). May not be repeated for credit.

MATSCIE 410 / BIOMEDE 410 / MACROMOL 410. Design and Applications of Biomaterials

[MATSCIE 220 or 250 (C- or better)] or Graduate. (Prerequisites enforced at registration.) (BS). May not be repeated for credit.

MATSCIE 412 / CHE 412 / MACROMOL 412. Polymeric Materials

[MATSCIE 220 or 250 (C- or better)] or Graduate. (Prerequisites enforced at registration.) (BS). May not be repeated for credit.

MATSCIE 510 / CHEM 511. Materials Chemistry

CHEM 302 and CHEM 461. (3). (BS). May not be repeated for credit.

MATSCIE 512 / CHE 512 / MACROMOL 512. Polymer Physics

Senior or graduate standing in engineering or physical science. (3). (BS). May not be repeated for credit.

MATSCIE 514 / MACROMOL 514 / MFG 514. Composite Materials

MATSCIE 220 or 250; (C- or better). (Prerequisites enforced at registration.) (BS). May not be repeated for credit. F.

MATSCIE 515 / MACROMOL 515. Mechanical Behavior of Solid Polymeric Materials

MECHENG 211 and CHE 412 or MATSCIE 412 or MACROMOL 412 or permissions of instructor. (3). (BS). May not be repeated for credit.

MATSCIE 517 / MACROMOL 530. Advanced Functional Polymers: Molecular Design and Applications

MATSCI 412; (C- or better). Consent of instructor required. (Prerequisites enforced at registration.) (BS). May not be repeated for credit.

CoE Mechanical Engineering**Courses In Mechanical Engineering (MECHENG)****MECHENG 567 / EECS 567 / MFG 567 / ROB 510. Robotic Kinematics and Dynamics**

Graduate standing or permission of instructor. (3). (BS). May not be repeated for credit. W.

CoE Nuclear Engineering and Radiological Sciences**Courses In Nuclear Engineering and Radiological Sciences (NERS)****NERS 572 / APPPHYS 672. Plasma and Controlled Fusion II**

NERS 571. (3). (BS). May not be repeated for credit.

CoE Program in Manufacturing

Courses In Manufacturing Engineering (MFG)

MFG 466 / IOE 466. Statistical Quality Control

[IOE 366 or STATS 401; (C- or better)] or Graduate. (Prerequisites enforced at registration.) (BS). May not be repeated for credit.

MFG 514 / MACROMOL 514 / MATSCIE 514. Composite Materials

MATSCIE 220 or 250; (C- or better). (Prerequisites enforced at registration.) (BS). May not be repeated for credit. F.

MFG 567 / EECS 567 / MECHENG 567 / ROB 510. Robotic Kinematics and Dynamics

Graduate standing or permission of instructor. (3). (BS). May not be repeated for credit. W.

CoE Undergraduate Education

Courses In Engineering (ENGR)

ENGR 371 / MATH 371. Numerical Methods for Engineers and Scientists

ENGR 101; one of MATH 216, 256, 286, or 316, and one of MATH 214, 217, 417, or 419. (3). (BS). May not be repeated for credit. No credit granted to those who have completed or are enrolled in MATH 471 or 472.

MED Bioinformatics

Courses In Bioinformatics and Computational Biology (BIOINF)

BIOINF 463 / BIOPHYS 463 / MATH 463. Mathematical Modeling in Biology

MATH 214, 217, 417, or 419; and MATH 216, 256, 286, or 316. (3). (BS). May not be repeated for credit.

BIOINF 547 / MATH 547 / STATS 547. Mathematics of Data

Basic probability (level of MATH/STATS 425 or MATH/STATS 525), or molecular biology (level of BIOLOGY 427), or biochemistry (level of CHEM/BIOLCHEM 451), or basic programming skills desirable or permission. (3). (BS). May not be repeated for credit.

BIOINF 568 / MATH 568. Mathematical and Computational Neuroscience

MATH 463 or 462 (for undergraduate students) or Graduate standing. (Prerequisites enforced at registration.) (3). (BS). May not be repeated for credit.

MED Biological Chemistry

Courses In Biological Chemistry (BIOLCHEM)

BIOLCHEM 398. Undergraduate Research in Biochemistry

Consent of instructor required. Junior standing and permission of the Biological Chemistry Professor who will supervise the research. (1 - 4). (BS). (INDEPENDENT). May be repeated for a maximum of 4 credits.

BIOLCHEM 415. Introductory Biochemistry

One semester of organic chemistry. (3). (BS). May not be repeated for credit. No credit granted to those who have completed or are enrolled in BIOLOGY 310 or 311, MCDB 310 or 311, CHEM 451, or BIOLCHEM 451 or 515. F.

BIOLCHEM 451 / CHEM 451. Advanced Biochemistry: Macromolecular Structure and Function

CHEM 215, 260, 351 and BIOLOGY 171 or 172. (4). (BS). May not be repeated for credit. F.

BIOLCHEM 452 / CHEM 452. Advanced Biochemistry: Cellular Processes

MCDB 310, CHEM 351 or BIOLCHEM 415; (C- or better). Consent of instructor required. (Prerequisites enforced at registration.) (BS). May not be repeated for credit. W.

BIOLCHEM 499. Biochemical Research for Undergraduates: Laboratory

Consent of instructor required. BIOLCHEM 415 or 451/452; permission of the course director. (1 - 6; 1 - 4 in the half-term). (BS). (INDEPENDENT). May be repeated for credit. F, W, Sp/Su.

BIOLCHEM 673 / CHEM 673. Kinetics and Mechanism

CHEMBIO 501 or its equivalent, undergrad calculus. Physical Chemistry is recommended. (2). (BS). May not be repeated for credit.

MED Division of Anatomical Science

Courses In Anatomy (ANATOMY)

ANATOMY 541 / NEURO 532 / PHYSIOL 541 / PSYCH 532. Mammalian Reproductive Physiology

MCDB 310 or BIOLCHEM 415 or CHEM 351; (C or better). (Prerequisites enforced at registration.) PHYSIOL 201 or PHYSIOL 502 or BIOL 225. (BS). May not be repeated for credit.

MED Human Genetics

MED Microbiology and Immunology

Courses In Microbiology (MICRBIOL)

MICRBIOL 399. Independent Research for Undergraduates

MICRBIOL 299. Consent of instructor required. (Prerequisites enforced at registration.) PER. INSTR. (INDEPENDENT). May be repeated for credit.

MICRBIOL 405. Medical Microbiology and Infectious Diseases

(3). (BS). May not be repeated for credit. Rackham credit requires additional work.

MICRBIOL 409 / INTMED 409. Investigational and Experimental Bacteriology

BIOLOGY 207 or MICRBIOL or instructor permission. Consent of instructor required. (Prerequisites enforced at registration.) (BS). May not be repeated for credit.

MICRBIOL 415. Virology

BIOLOGY 172. (3). (BS). May not be repeated for credit. Rackham credit requires additional work.

MICRBIOL 440. Human Immunology

BIOLOGY 172. (3). (BS). May not be repeated for credit. Only one of MICRBIOL 440 or MCDB 436 will count toward a Microbiology major. Rackham credit requires additional work.

MICRBIOL 460 / INTMED 460. Eukaryotic Microbiology

BIOLOGY 172. (3). (BS). May not be repeated for credit. F. Rackham credit requires additional work.

MED Molecular and Integrative Physiology

Courses In Physiology (PHYSIOL)

PHYSIOL 306. Problems

Consent of instructor required. PHYSIOL 201. (1 - 4). (BS). (INDEPENDENT). May be repeated for a maximum of 8 credits. F, W, Sp/Su, Sp, Su.

PHYSIOL 405. Research Problems

Consent of instructor required. (1 - 4; 1 - 2 in the half-term). (INDEPENDENT). May be repeated for a maximum of 8 credits. F, W, Sp/Su, Sp, Su.

PHYSIOL 502. Human Physiology

Introduction to biology and biochemistry. (4). (BS). May not be repeated for credit.

PHYSIOL 541 / ANATOMY 541 / NEURO 532 / PSYCH 532. Mammalian Reproductive Physiology

MCDB 310 or BIOLCHEM 415 or CHEM 351; (C or better). (Prerequisites enforced at registration.) PHYSIOL 201 or PHYSIOL 502 or BIOL 225. (BS). May not be repeated for credit. W.

PHYSIOL 576. Signal Transduction

Two terms of organic chemistry; BIOLCHEM 415 or 451/452. Physical Chemistry is strongly recommended. (1). (BS). May not be repeated for credit. F.

MED Neuroscience Laboratory

Courses In Neuroscience (NEUROSCI)

NEUROSCI 470 / NEURO 470. Human Neuroanatomy

Senior standing. (BS). May not be repeated for credit.

NEUROSCI 525 / NEURO 525. Introduction to Pain, Neuroscience

Senior or Graduate Standing. (Prerequisites enforced at registration.) Upper level undergraduate students (with permission); graduate students in NEUROSCI, PUBHLTH, PSYCH and/or BIOLOGY; professional students from NURS, PHARMACY, DENT and MED. (BS). May not be repeated for credit.

MOEP: Air Force Officer Education Program

Courses In Air Force Officer Education (AERO)

AERO 101. Heritage and Values of the United States Air Force I

(1). May not be repeated for credit. Not for credit toward LSA degree. F.

AERO 102. Heritage and Values of the United States Air Force II

(1). May not be repeated for credit. Not for credit toward LSA degree.

AERO 201 / UC 201. Team and Leadership Fundamentals I

AERO 102/Permission of Instructor. (1). May not be repeated for credit.

AERO 202 / UC 202. Team and Leadership Fundamentals II

AERO 201/Permission of Instructor. (1). May not be repeated for credit.

AERO 310 / UC 307. Leading People and Effective Communication I

(3). May not be repeated for credit.

AERO 311. Leading People and Effective Communication II

AERO 310. (3). May not be repeated for credit. Not for credit toward LSA degree.

AERO 410. National Security Affairs/Preparation for Active Duty I

AERO 310 & 311; (C or better). (Prerequisites enforced at registration.) May not be repeated for credit. Not for credit toward LSA degree. F.

AERO 411. National Security Affairs/Preparation for Active Duty II

AERO 310 & 311; (C or better). (Prerequisites enforced at registration.) May not be repeated for credit. Not for credit toward LSA degree.

MOEP: Army Officer Education Program

Courses In Military Science (MILSCI)

MILSCI 101. Introduction to Officership

(1). May not be repeated for credit. Not for credit toward LSA degree. F.

MILSCI 102. Introduction to Leadership

(1). May not be repeated for credit. Not for credit toward LSA degree.

MILSCI 201 / UC 203. Innovative Tactical Leadership

(1). May not be repeated for credit.

MILSCI 202 / UC 204. Leadership in Changing Environments

Permission of professor. (1). May not be repeated for credit.

MILSCI 301 / UC 301. Leading Small Organizations I

Permission of Army OEP chair. (2). May not be repeated for credit.

MILSCI 302 / UC 302. Leading Small Organizations II

MILSCI 301 or UC 301. (Prerequisites enforced at registration.) Permission of program chairman. May not be repeated for credit.

MILSCI 401 / UC 401. Leadership and Management

MILSCI 302, UC 302. (Prerequisites enforced at registration.) Permission of chair of Army OEP. May not be repeated for credit.

MILSCI 402 / UC 402. Military Professionalism and Professional Ethics

MILSCI 401, UC 401. (Prerequisites enforced at registration.) May not be repeated for credit.

MILSCI 499. Independent Study-Directed Readings

Consent of instructor required. (1 - 4). (INDEPENDENT). May be repeated for a maximum of 8 credits. Not for credit toward LSA degree.

MOEP: Navy Officer Education Program

Courses In Naval Science (NAVSCI)

NAVSCI 101. Introduction to Naval Science

(2). May not be repeated for credit. Not for credit toward LSA degree. F.

NAVSCI 102 / UC 101. Seapower and Maritime Affairs

(2). May not be repeated for credit. W.

NAVSCI 201 / NAVARCH 102. Introduction to Ship Systems

(3). (BS). May not be repeated for credit. F. (non-LSA).

NAVSCI 202 / EECS 250. Electronic Sensing Systems

Prior or concurrent enrollment in PHYSICS 240 (or 260) or EECS 230. (3). (BS). May not be repeated for credit. W. (non-LSA).

NAVSCI 203 / UC 205. Leadership and Management

NAVSCI 101, 102 OR PI. (3). May not be repeated for credit. F.

NAVSCI 301 / ASTRO 261. Navigation

(3). (BS). May not be repeated for credit. W.

NAVSCI 302. Seamanship and Naval Operations

NAVSCI 301. (3). May not be repeated for credit. Not for credit toward LSA degree. F.

NAVSCI 310 / UC 310. Fundamentals of Warfare

Consent of instructor required. (3). May not be repeated for credit.

NAVSCI 402 / UC 403. Leadership and Ethics

NAVSCI 203. Non-ROTC students need permission of instructor. (2). May not be repeated for credit. W.

NAVSCI 410 / UC 410. Evolution of Warfare

Consent of instructor required. Completion of Naval Science 310 The Fundamentals of Maneuver Warfare. (3). May not be repeated for credit.

Music School

Courses In Music Composition (COMP)

COMP 139. Intro Basic Craft

FR.COMP.MAJ. (3; 2 in the half-term). May be repeated for credit.

COMP 140. Intro Basic Craft

COMP 139. (2 - 3). May be repeated for credit.

COMP 221. Intro Elem Comp

NON-MUS ONLY. (3; 2 in the half-term). (CE). May be repeated for credit.

COMP 222. Composition

COMP 221. (3; 2 in the half-term). (CE). May be repeated for credit.

COMP 233. Special Topics in Composition

(2 - 3). May be repeated for credit.

COMP 239. Contd Basic Craft

Consent of instructor required. SO.COMP.MAJ. (2 - 3). (INDEPENDENT). May be repeated for credit.

COMP 240. Contd Basic Craft

Consent of instructor required. COMP 239. (2 - 3). (INDEPENDENT). May be repeated for credit.

COMP 339. Adv Composition

Consent of instructor required. JR.COMP.MAJ. (2 - 4). (INDEPENDENT). May be repeated for credit.

COMP 340. Adv Composition

Consent of instructor required. COMP 339. (2 - 4). (INDEPENDENT). May be repeated for credit.

COMP 415. Intro Electron Mus

(2). May be repeated for credit.

COMP 416. Sem Electron Mus

COMP 415. (Prerequisites enforced at registration.) May be repeated for credit.

COMP 421. Creative Comp

MUS&NON-MUS. (3; 2 in the half-term). May be repeated for credit.

COMP 422. Creative Comp

COMP 421. (3; 2 in the half-term). May be repeated for credit.

COMP 423. Adv Composition

Consent of instructor required. Comp. 421 and 422. (2 - 4). (INDEPENDENT). May be repeated for credit.

COMP 424. Adv Composition

Consent of instructor required. COMP 423. (2 - 4). (INDEPENDENT). May be repeated for credit.

COMP 425. Adv Composition

Consent of instructor required. Composition 424. Individual instruction. Open to music students and students outside the School of Music. (2 - 4). (INDEPENDENT). May be repeated for credit.

COMP 426. Adv Composition

Consent of instructor required. COMP 425. (2 - 4). (INDEPENDENT). May be repeated for credit.

COMP 433. Special Topics in Composition

(2 - 3). May be repeated for credit. Non-Rackham Graduate credit.

COMP 439. Adv Composition

Consent of instructor required. SR.COMP.MAJ. (2 - 4). (INDEPENDENT). May be repeated for credit.

COMP 440. Adv Composition

Consent of instructor required. COMP 439. (2 - 4). (INDEPENDENT). May be repeated for credit.

COMP 450. Undergrad Seminar

Elect concurrently with THEORY 239, 240, 339, 340, 439, 440, 423, 424, 425, 426. (1). May be repeated for credit. Non-Rackham Graduate credit.

COMP 506. Special Courses

Permission of instructor. (1 - 3). May be repeated for credit.

COMP 515. Intro Electron Mus

(2). May be repeated for credit.

COMP 516. Sem Electron Mus

COMP 515 or 415. (Prerequisites enforced at registration.) May be repeated for credit.

COMP 526. Adv Stdy Elec Mus

COMP 516 or 416. Consent of instructor required. (Prerequisites enforced at registration.) May be repeated for credit.

COMP 601. Independent Study

Consent of instructor required. (2 - 4). (INDEPENDENT). May be repeated for credit.

Courses In Ensemble (ENS)**ENS 307 / RCMUSIC 325. Global Performance Ensemble**

May be repeated for credit.

ENS 351 / RCMUSIC 323. Arts Chorale

BY AUDITION. (1). (CE). May be repeated for credit. Yields non-LS&A degree credit but no honor points.

ENS 407 / RCHUMS 303. Global Performance Ensemble

One semester of gamelan. May be repeated for credit.

ENS 451 / RCHUMS 423. Out of the Blue

Consent of instructor required. May be elected 91 times for credit.

Courses In Jazz & Improvisational Studies (JAZZ)**JAZZ 466. Jazz Improvistn I**

Consent of instructor required. Music major or permission of instructor. (3). May be repeated for credit.

JAZZ 467. Jazz Improvistn II

JAZZ 466. Consent of instructor required. (Prerequisites enforced at registration.) May be repeated for credit.

Courses In Music History and Musicology (MUSICOL)**MUSICOL 121. Introduction to the Art of Music**

NON-MUS ONLY. (4). (HU). May not be repeated for credit. No prior musical experience is required. W.

MUSICOL 122. Intro World Music

NON-MUS ONLY. (3). (HU). May not be repeated for credit.

MUSICOL 123. Introduction to Popular Music

(4). (HU). May not be repeated for credit. F.

MUSICOL 130. Opera!

(3). (HU). May be repeated for credit.

MUSICOL 139. Introduction to the Study of Music

S M STU ONLY. (2). (HU). May not be repeated for credit.
MUSICOL 140. History of US Musics
S M STU ONLY. (2). (HU). May not be repeated for credit.
MUSICOL 239. History of Music
S M STU ONLY. (2). (HU). May not be repeated for credit.
MUSICOL 240. History of Western Music
S M STU ONLY. (2). (HU). May not be repeated for credit.
MUSICOL 345. History of Music
NON-MUS ONLY. (3). (HU). May be repeated for credit.
MUSICOL 346. History of Music
NON-MUS ONLY. (3). (HU). May be repeated for credit.
MUSICOL 405. Special Course
Undergraduates only. (1 - 3; 1 - 2 in the half-term). May be repeated for credit. Graduate students elect MUSICOL 505.
MUSICOL 406. Special Course
(2 - 4; 1 - 2 in the half-term). May be repeated for credit. Graduate students elect MUSICOL 506.
MUSICOL 407. Special Course
UG ONLY. (1 - 3; 1 - 2 in the half-term). May be repeated for credit. Graduate students elect MUSICOL 507.
MUSICOL 408. Special Course
UG ONLY. (1 - 3; 1 - 2 in the half-term). May be repeated for credit.
MUSICOL 413. Topics in the Early History of Opera
Undergraduates only. (3; 2 in the half-term). May not be repeated for credit. Graduate students elect MUSICOL 513.
MUSICOL 414. 19-20th Cent Opera
UG ONLY. (3). May not be repeated for credit.
MUSICOL 417. History of Jazz
(3). May not be repeated for credit.
MUSICOL 421. Mus Classic Era
Undergraduates only. (3; 2 in the half-term). May not be repeated for credit. Graduate students elect MUSICOL 521.
MUSICOL 423. Western Classical Music Since 1900
MUSICOL 240. (3; 2 in the half-term). May not be repeated for credit. Graduate students elect MUSICOL 523.
MUSICOL 424. The Art Song
Undergraduates only. (3). May not be repeated for credit. Graduate students elect MUSICOL 524.
MUSICOL 464 / AAS 464. Music of Latin America and the Caribbean
AAS 202. (3). May not be repeated for credit. Graduate students elect MUSICOL 564.
MUSICOL 465. Music in Africa
UG ONLY. (3). May not be repeated for credit.
MUSICOL 467. Music of the Middle East, India, and Southeast Asia
(3). May not be repeated for credit. Graduate students elect MUSICOL 567.
MUSICOL 478. Renaissance Music
Undergraduates only. (3). May not be repeated for credit. Graduate students elect MUSICOL 578.
MUSICOL 481. Special Projects
Consent of instructor required. UG W P.I. (1 - 4). (INDEPENDENT). May not be repeated for credit.
MUSICOL 631. Hist-Appl Perf Prac
(3; 2 in the half-term). May not be repeated for credit.

Courses In Musical Theatre (MUSTHTRE)

MUSTHTRE 133. Intro Mus Thtre I
FRSH M T MAJ. (2). May not be repeated for credit.
MUSTHTRE 134. Intro Mus Thtre II
FRSH M T MAJ. (2). May not be repeated for credit.
MUSTHTRE 441. Hist Musical Theatr
SEE BULLETIN. (3). May not be repeated for credit.
MUSTHTRE 442. Hist Musical Theatr
Consent of instructor required. SEE BULLETIN. (3). May not be repeated for credit.

Courses In Performing Arts Technology (PAT)

PAT 200. Introduction to Electronic Music Production
May not be repeated for credit.

Courses In Music Theory (THEORY)

THEORY 135. Intro Music Theory Music Theory Major
THTR MAJORS. (3). May be repeated for credit.
THEORY 137. Introduction to the Theory of Music
No previous formal training in music theory only basic understanding of musical notation. (3). (HU). May not be repeated for credit.
THEORY 139. Bmus Aural Sk I
129/SURV TEST. (1). May not be repeated for credit.
THEORY 140. Bmus Aural Sk I I
THEORY 139. (Prerequisites enforced at registration.) May not be repeated for credit.

THEORY 149. Bmus Wrtg Sk I
 (2). May be repeated for a maximum of 4 credits.

THEORY 150. Bmus Wrtg Sk I I
 THEORY 149. (Prerequisites enforced at registration.) May not be repeated for credit.

THEORY 211. Basic Th at Keybd
 THRY 140,150. (2). May not be repeated for credit.

THEORY 212. Basic Th at Keybd
 THEORY 211. (Prerequisites enforced at registration.) May not be repeated for credit.

THEORY 236. Intro Music Analysis Music Theatre Major
 THEORY 135. (Prerequisites enforced at registration.) May be repeated for credit.

THEORY 238. Introduction Music Analysis
 THEORY 137. (Prerequisites enforced at registration.) (HU). May not be repeated for credit.

THEORY 239. Bmus Aural Sk I I I
 THEORY 140. (Prerequisites enforced at registration.) May not be repeated for credit.

THEORY 240. Bmus Aural Sk I V
 THEORY 239. (Prerequisites enforced at registration.) May not be repeated for credit.

THEORY 249. Bmus Wrtg Sk I I I
 THEORY 140 and 150. (Prerequisites enforced at registration.) May not be repeated for credit.

THEORY 250. Bmus Wrtg Sk I V
 THEORY 249. (Prerequisites enforced at registration.) May not be repeated for credit.

THEORY 334. Soph Thry-Writn Skl
 THRY 332&333. (2). May not be repeated for credit.

THEORY 339. Aural Skills Graduate Review
 May not be repeated for credit.

THEORY 407. Directed Indiv Stdy
 Consent of instructor required. Permission of department chairman. (2 - 4). (INDEPENDENT). May be repeated for credit.

THEORY 408. Senior Project
 Consent of instructor required. SR.MAJ THRY. (2). (INDEPENDENT). May not be repeated for credit.

THEORY 430. Advanced Anl Tonal Music
 THEORY 240 AND 250. (Prerequisites enforced at registration.) May not be repeated for credit.

THEORY 433. Analysis of 20th-Century Modernist Music
 THEORY 240 AND 250. (Prerequisites enforced at registration.) THEORY 259 or JAZZ 221 may substitute for THEORY 250. May be repeated for credit.

THEORY 436. Analytical History of Jazz
 THEORY 240 AND 250. (Prerequisites enforced at registration.) THEORY 259 of JAZZ 221 may substitute for THEORY 250. May not be repeated for credit.

THEORY 438. Theory and Analysis of World Musics
 THEORY 240 AND 250. (Prerequisites enforced at registration.) May be repeated for credit.

THEORY 440. Species Cntrpt I
 THEORY 250. (Prerequisites enforced at registration.) May not be repeated for credit.

THEORY 442. 18th C Counterpoint
 THEORY 240 AND 250. (Prerequisites enforced at registration.) THEORY 240; 250 or 259. May not be repeated for credit. F.

THEORY 443. 18th C Counterpoint
 THEORY 442. (Prerequisites enforced at registration.) May not be repeated for credit.

THEORY 454. Orchestration I
 THEORY 240 AND 250. (Prerequisites enforced at registration.) THEORY 259 or JAZZ 221 may substitute for THEORY 250. May not be repeated for credit.

THEORY 455. Orchestration II
 THEORY 454. (Prerequisites enforced at registration.) May not be repeated for credit.

THEORY 460. Special Courses
 THEORY 240 AND 250. Consent of instructor required. (Prerequisites enforced at registration.) May be repeated for credit.

THEORY 531. Schenkerian Theory and Analysis I
 Consent of instructor required. Music Theory 430 or 461; permission of instructor. (3; 2 in the half-term). May not be repeated for credit.

THEORY 532. Schenkerian Theory and Analysis II
 THEORY 531 with permission of instructor. (3). May not be repeated for credit.

THEORY 534. Twentieth Century Music: Theory and Analysis I
 Consent of instructor required. THEORY 433 or 533; or permission of instructor. (3). May not be repeated for credit.

THEORY 537. Proseminar in the Analysis of Music
 THEORY 430. (Prerequisites enforced at registration.) THEORY 430 or 461; or permission of instructor. May not be repeated for credit.

THEORY 552. Project in Tonal Composition
 Consent of instructor required. Permission of instructor. (2). May not be repeated for credit.

THEORY 560. Special Studies
 THEORY 240 AND 250. Consent of instructor required. (Prerequisites enforced at registration.) May be repeated for credit.

THEORY 570. Directed Individual Study
 Consent of instructor required. Must secure permission from chairman, Dept of Music Theory, during term prior to that of enrollment. (1 - 4). (INDEPENDENT). May be repeated for credit.

THEORY 590. Teaching Tonal Theory
 Consent of instructor required. THEORY 430 or 461; with permission of instructor. (3). May not be repeated for credit.

THEORY 721. 20c Thry Tonal Mus
 Music Theory 511 or permission of instructor. (3). May not be repeated for credit.

THEORY 805. Seminar in Theory

Permission of instructor. (3; 2 in the half-term). May not be repeated for credit.

THEORY 807. Research Project

Consent of instructor required. Permission of department chairman. (2 - 4). (INDEPENDENT). May not be repeated for credit.

Music: Dance**Courses In Dance (DANCE)****DANCE 241 / RCHUMS 260. The Art of Dance: An Introduction to American and European Dance History, Aesthetics, and Criticism**

(3). (HU). May not be repeated for credit.

Music: Theatre and Drama**Courses In Theatre and Drama (THTREMUS)****THTREMUS 101. Introduction to Acting I**

Consent of instructor required. Open to non-concentrators. Consent of instructor required. (3). (CE). May not be repeated for credit.

THTREMUS 102. Intro to Acting II

Consent of instructor required. Consent of instructor. (3). (CE). May not be repeated for credit.

THTREMUS 110. Introduction to Acting for the Camera

THTREMUS 101 and/or permission of instructor. (3). (CE). May not be repeated for credit.

THTREMUS 172. Movement I

Consent of instructor required. (2). May be elected twice for credit.

THTREMUS 181. Acting I

Consent of instructor required. Permission of instructor (audition). (3). (CE). May be elected twice for credit. No credit granted to those who have completed or are enrolled in THEATRE 231.

THTREMUS 182. Acting II: Observation and Action

Consent of instructor required. THTREMUS 181. (3). May be elected twice for credit.

THTREMUS 192. Voice I

Consent of instructor required. Consent of instructor. (3). May be elected twice for credit.

THTREMUS 211 / ENGLISH 245 / RCHUMS 280. Introduction to Drama and Theatre

(3; 2 in the half-term). (HU). May not be repeated for credit. No credit granted to those who have completed or are enrolled in RCHUMS 281.

THTREMUS 222. Global Performance and Ethnic Studies in the United States

(3). (HU). May not be repeated for credit.

THTREMUS 227 / ENGLISH 227. Introductory Playwriting

(3; 2 in the half-term). (CE). May not be repeated for credit.

THTREMUS 233. Modern Rituals/Traditional Practices

Consent of instructor required. (3). (HU). May be repeated for a maximum of 6 credits.

THTREMUS 240. Introduction to Design

THTREMUS 250. (3). (CE). May not be repeated for credit.

THTREMUS 241. Directing I

Consent of instructor required. Consent of instructor. (3). May not be repeated for credit.

THTREMUS 242. Directing II

Consent of instructor required. 241&P.I. (3). (CE). May not be repeated for credit.

THTREMUS 245. Introduction to Stage Management

Permission of instructor. (2 - 3). (CE). May not be repeated for credit.

THTREMUS 250. Introduction to Technical Theatre Practices

Consent of instructor required. (3; 2 in the half-term). May be repeated for a maximum of 3 credits.

THTREMUS 251. Production Practicum Run Crew

(1). May be repeated for a maximum of 2 credits.

THTREMUS 252. Production Practicum Intro Prod Shop 2

THTREMUS 251 and permission of instructor. (1). May not be repeated for credit.

THTREMUS 256. Lighting Design I

THTREMUS 250. (3). May not be repeated for credit.

THTREMUS 260. Scene Design I

THTREMUS 250. (3). May not be repeated for credit.

THTREMUS 261. Production Practicum

Permission of instructor. (1). May not be repeated for credit.

THTREMUS 262. Production Practicum

Permission of instructor. (1). May not be repeated for credit.

THTREMUS 270. Costume Design I

THTREMUS 240 and 277/Permission of instructor. (3). May not be repeated for credit.

THTREMUS 271. Movement II

Consent of instructor required. THTREMUS 172 and consent of instructor. (2). May be elected twice for credit.

THTREMUS 272. Movement III

Consent of instructor required. 172&271&P.I. (2). May be elected twice for credit.

THTREMUS 274. Stage Combat I

Consent of instructor required. THREMUS 172 and 181; and consent of instructor. (2). May not be repeated for credit.

THREMUS 277. History of Western Silhouettes

Permission of instructor. (3). May not be repeated for credit.

THREMUS 281. Acting III: Stakes and Public Argument

Consent of instructor required. THREMUS 182. (3). May be elected twice for credit.

THREMUS 282. Acting IV: Heightened Language and Text

Consent of instructor required. THREMUS 281. (3). May be elected twice for credit.

THREMUS 291. Voice II

Consent of instructor required. THREMUS 192; and consent of instructor. (3). May be elected twice for credit.

THREMUS 292. Voice III

Consent of instructor required. 291&P.I. (3). May be elected twice for credit.

THREMUS 315 / AMCULT 350. Broadway and American Culture

No credit granted to those who have completed or are enrolled in AMCULT 311 (topics #45, #82, or #96) when taught with the topic "Broadway in America" or "Race and Broadway Musicals.". (Prerequisites enforced at registration.) (4; 3 in the half-term). (HU). (R&E). May not be repeated for credit.

THREMUS 321 / ENGLISH 443. History of Theatre I

(3). May not be repeated for credit.

THREMUS 322 / ENGLISH 444. History of Theatre II

(3). May not be repeated for credit.

THREMUS 323 / ENGLISH 349. American Theatre and Drama

(3). (HU). May not be repeated for credit.

THREMUS 325. Contemporary American Theatre and Drama

(3). May not be repeated for credit.

THREMUS 327 / ENGLISH 327. Intermediate Playwriting

ENGLISH 227. (3; 2 in the half-term). May not be repeated for credit.

THREMUS 328 / ENGLISH 311. Theater of Politics

Consent of department required. (3). (HU). May not be repeated for credit.

THREMUS 334 / RCDRAMA 332. The Atonement Project

(3). May not be repeated for credit.

THREMUS 335 / RCDRAMA 335. Theatre and Incarceration

May not be repeated for credit.

THREMUS 340. Devising Theatre

Permission of instructor. (3 in the half-term). May be repeated for a maximum of 6 credits.

THREMUS 341. Directing III

Consent of instructor required. THREMUS 242; and consent of instructor. (3). May not be repeated for credit.

THREMUS 342. Directing IV

Consent of instructor required. 341&P.I. (3). May not be repeated for credit.

THREMUS 345. Stage Management-Plays

Consent of instructor required. THREMUS 351 & permission of instructor. (2 - 6). May be repeated for a maximum of 6 credits.

THREMUS 351. Practicum Assisting in Stage Management or Design

Permission of instructor. (1 - 3). May not be repeated for credit.

THREMUS 352. Advanced Production Practicum

Permission of instructor. (1 - 3). May not be repeated for credit.

THREMUS 353. Sound for Theatre

Consent of instructor required. Consent of instructor required. THREMUS 250&P.I. (2). May be elected five times for credit. W.

THREMUS 356. Lighting Design II

Consent of instructor required. Consent of instructor required. THREMUS 256/P.I. (3). May not be repeated for credit.

THREMUS 360. Scene Design II

Consent of instructor required. Consent of instructor required. THREMUS 260/P.I. (3). May not be repeated for credit.

THREMUS 370. Costume Design II

THREMUS 270 and permission of instructor. (3). May not be repeated for credit.

THREMUS 374. Stage Combat II

Consent of instructor required. THREMUS 274, 192, and 282; and consent of instructor. (2). May not be repeated for credit.

THREMUS 381. Acting V: Subtext and Irony

Consent of instructor required. THREMUS 282. (3). May be elected twice for credit.

THREMUS 385 / ARTSADMN 385. Performing Arts Management

Consent of instructor required. (2). May not be repeated for credit.

THREMUS 387. Performance Practicum I

Consent of instructor required. THREMUS 282. (2). May be elected twice for credit.

THREMUS 388. Performance Practicum II

Consent of instructor required. THREMUS 282 and 387; and consent of instructor. (2). May not be repeated for credit.

THREMUS 395. Stage Dialects

Consent of instructor required. THREMUS 192; and consent of instructor. (3). May not be repeated for credit.

THREMUS 399. Topics in Drama

(1 - 4). May be repeated for credit.

THREMUS 400. Directed Reading

Consent of instructor required. Undergraduate standing; and consent of instructor. (1 - 3). (INDEPENDENT). May be repeated for a maximum of 6 credits.

THREMUS 401. Independent Study

Consent of instructor required. PER. INSTR. (1 - 3). (INDEPENDENT). May be repeated for a maximum of 6 credits.

THTREMUS 403. Des&Prod Seminar

Permission of instructor / non-majors. (1). May not be repeated for credit.

THTREMUS 404. Design and Production Professional Preparation

Permission of instructor / non-majors. (1). May not be repeated for credit.

THTREMUS 427 / ENGLISH 427. Advanced Playwriting

Consent of instructor required. ENGLISH 327. (3; 2 in the half-term). May be repeated for a maximum of 6 credits.

THTREMUS 429. Developing New Work for the Stage

Consent of instructor required. THTREMUS 327/P.I. (3). May not be repeated for credit. W.

THTREMUS 440. Special Topics in African American Theatre and Drama

THTREMUS 222. (3 in the half-term). May not be repeated for credit.

THTREMUS 442. Directing Project

Consent of instructor required. THTREMUS 441. (3). (INDEPENDENT). May not be repeated for credit.

THTREMUS 445. Stage Management: Music/Opera

Consent of instructor required. THTREMUS 351 and permission of instructor. (2 - 6). May be repeated for a maximum of 6 credits.

THTREMUS 451. Design Practicum

Permission of instructor. (2 - 3). May not be repeated for credit.

THTREMUS 456. Lighting Design III

THTREMUS 356. (3). May not be repeated for credit. No credit granted to those who have completed or are enrolled in THTREMUS 557.

THTREMUS 457. Lighting Design IV

Consent of instructor required. 456/P.I. (3). May not be repeated for credit.

THTREMUS 460. Scene Design III

THTREMUS 360. (3; 2 in the half-term). May not be repeated for credit.

THTREMUS 461. Advanced Management Production Practicum

Permission of instructor. (2 - 3). May be repeated for a maximum of 6 credits.

THTREMUS 462. Drafting

Consent of instructor required. THTREMUS 250. (3). May not be repeated for credit. No credit granted to those who have completed or are enrolled in THTREMUS 362. Undergraduates must elect THTREMUS 362.

THTREMUS 463. Introduction to CAD

Consent of instructor required. THTREMUS 462 and permission of instructor. (3). May not be repeated for credit.

THTREMUS 464. Sc Paint for Theatr

THTREMUS 250. (3). May not be repeated for credit.

THTREMUS 468. History of Theatre Architecture

Permission of instructor. (3). May not be repeated for credit.

THTREMUS 470. Costume Design III

Consent of instructor required. THTREMUS 370; and consent of instructor. (3). May not be repeated for credit.

THTREMUS 471. Costume Patterning for Theatre

Consent of instructor required. Permission of instructor. (3). May not be repeated for credit.

THTREMUS 476. Topics in Costume Technology

Consent of instructor required. Permission of instructor. (3). May be repeated for a maximum of 6 credits.

THTREMUS 484. Acting for Camera II

Consent of instructor required. THTREMUS 382 and THTREMUS 481. (3). May not be repeated for credit.

THTREMUS 495. Uber-Practicum

Permission of instructor. (1 - 6). May not be repeated for credit.

THTREMUS 505. Sp Wk Th Prod&Perf

Consent of instructor required. PER. INSTR. (1 - 6; 1 - 3 in the half-term). (INDEPENDENT). May not be repeated for credit.

THTREMUS 560. Scene Design IV

THTREMUS 460. (3). May not be repeated for credit.

THTREMUS 570. Costume Design IV

THTREMUS 470 and permission of instructor. (3). May not be repeated for credit.

THTREMUS 571. Men's Patttern Draft

Permission of instructor. (3). May not be repeated for credit.

Registrar's Office**Ross School of Business****Courses In Business Administration (BA)****BA 476 / HISTORY 476. American Business History**

Junior, senior, or graduate standing. (3). May not be repeated for credit.

BA 499 / GERMAN 430. Doing Business in German

One 300-level course taught in German or permission of instructor. (3). May not be repeated for credit. W. Taught in German.

Courses In Business Economics and Public Policy (BE)**BE 440 / MATH 422. Risk Management and Insurance**

MATH 115, junior standing, and permission of instructor. (3). (BS). May not be repeated for credit.

Courses In Entrepreneurial Studies (ES)

ES 212 / UC 214. Entrepreneurial Business Basics

Non-Ross Sophomores or above (Undergrad only). (Prerequisites enforced at registration.) May not be repeated for credit.

Courses In Technology & Operations (TO)

TO 518 / IOE 510 / MATH 561. Linear Programming I

MATH 217, 417, or 419. (3). (BS). May not be repeated for credit.

School of Art and Design

Courses In Art and Design (ARTDES)

ARTDES 360 / ENVIRON 363. Community Partnered Design-Build

No credit in ARTDES 310 with topic 'Community Partner Design-Build' or ENVIRON 305 with topic 'Comm Prmr Des/Build'. (Prerequisites enforced at registration.) Aca. May not be repeated for credit.

ARTDES 407 / RCARTS 407. Ceramics and Ritual: The Object as Protagonist

ARTDES 181 or 202 or RCARTS 290. (Prerequisites enforced at registration.) May not be repeated for credit.

School of Education

Courses In Education D â€” Curriculum and Instruction (EDCURINS)

EDCURINS 421 / LATIN 421. Teaching of Latin

Junior standing in Latin and permission of instructor. (3; 2 in the half-term). May not be repeated for credit. F, W, Sp.

EDCURINS 431 / GERMAN 531. Teaching Methods

Senior standing; and candidate for a teaching certificate. (3). May not be repeated for credit. F.

EDCURINS 455 / ROMLING 413 / SPANISH 413. Teaching Spanish/Applications of Linguistics

Nine credits chosen between SPANISH 279 and 399; or two RCLANG 324 and six credits chosen between SPANISH 279 and 399. (Prerequisites enforced at registration.) One of: SPANISH 298, ROMLING 298, LING 210. (3). May not be repeated for credit. F.

Courses In Education (EDUC)

EDUC 122 / ALA 122 / PSYCH 122 / SOC 122. Intergroup Dialogues

Consent of instructor required. (3). (SS). (R&E). May be repeated for a maximum of 6 credits.

EDUC 325 / ALA 324. Facilitation in Community Settings

ALA 320, 321 and/or 471. (3). May not be repeated for credit.

EDUC 329 / ALA 321 / PSYCH 311 / SOC 321. Practicum in Facilitating Intergroup Dialogues

PSYCH 310/SOC 320 and permission of instructor. (4). (SS). (R&E). (EXPERIENTIAL). May not be repeated for credit.

EDUC 333 / DIGITAL 333. Video Games and Learning

(3). (SS). May not be repeated for credit.

EDUC 390 / ELI 390 / LING 390 / RCSTP 390. Community-Engaged Learning in ESL Teaching Contexts

(3). (EXPERIENTIAL). May be elected three times for credit.

EDUC 461 / MENAS 461. Web Based Mentorship: Earth Odysseys

(3). May be repeated for a maximum of 6 credits.

EDUC 462 / MENAS 462. Web Based Mentorship: Learning Through Character Play

Consent of instructor required. (3). (EXPERIENTIAL). May be repeated for credit.

EDUC 463 / MENAS 463. Web Based Mentorship: Arab-Israeli Conflict Simulation

(3). May be repeated for a maximum of 6 credits.

EDUC 554 / CHEM 550. Chemistry Education Research and Practice

CHEM 210. (3 - 4). May not be repeated for credit.

School of Information

Courses In Information (SI)

SI 106 / ALA 118. Programs, Information and People

(4). (MSA). May not be repeated for credit.

SI 110 / ALA 119 / STS 110. Introduction to Information Studies

(4). (SS). May not be repeated for credit.

SI 301. Models of Social Information Processing

[EECS 280 or 281; (C- or better)] or [preceded or accompanied by SI 206 or waiver; (C- or better)]. (Prerequisites enforced at registration.) EECS 280. May not be repeated for credit.

SI 410 / AMCULT 410 / DIGITAL 410 / STS 410. Ethics and Information Technology

Junior or Senior. (Prerequisites enforced at registration.) May not be repeated for credit.

SI 422. Needs Assessment and Usability Evaluation

(3). May not be repeated for credit.

SI 429. Online Communities: Analysis and Design of Online Interaction

(3). May not be repeated for credit.

SI 561 / CSE 595 / LING 541. Natural Language Processing

Senior standing. (3). (BS). May not be repeated for credit.

School of Kinesiology

Courses In Sport Management (SM)

SM 361 / AMCULT 368 / COMPLIT 313. City of Champions: Detroit Sports Culture in Context

Familiarity with US sports and/or a strong interest in urban history. (3). (HU). May not be repeated for credit.

School of Nursing

Courses In Health Sciences (HS)

HS 225 / WGS 212. Global Perspectives on the HIV and AIDS Epidemic

May not be repeated for credit.

HS 404 / WGS 404. Gender Based Violence: From Theory to Action

(2 - 3). May not be repeated for credit.

Courses In Nursing (NURS)

NURS 220 / STS 220 / WGS 220. Perspectives in Women's Health

(3). (SS). (R&E). May not be repeated for credit.

School of Social Work

Courses In Social Work (SW)

SW 305 / SOC 326. Theories and Practices for Community Action and Social Change

Community Action and Social Change Minor declared or interested in declaring. (3). May not be repeated for credit.

SW 312 / RCSSCI 312. Environmental Justice Grassroots Community Organizing in Detroit for Changing Times

May not be repeated for credit.

SNE Program in the Environment

Courses In Program in the Environment (ENVIRON)

ENVIRON 101 / BIOLOGY 101. Food, Energy, and Environmental Justice

(4). (NS). (BS). May not be repeated for credit.

ENVIRON 102 / CLIMATE 102 / EARTH 122. Extreme Weather

(3). (NS). (BS). May not be repeated for credit.

ENVIRON 105 / CHEM 105 / CLIMATE 105 / ENSCEN 105 / STS 105. Our Changing Atmosphere

(3). (NS). (BS). May not be repeated for credit.

ENVIRON 109 / CHEM 110 / EARTH 178. Science and Sustainable Development

(3). (NS). May not be repeated for credit.

ENVIRON 110 / BIOLOGY 110 / CLIMATE 171 / EARTH 171 / RCNSCI 110. Introduction to Global Change: The Science Behind Sustainability

(4). (NS). (BS). May not be repeated for credit. Satisfies the geography requirement for State of Michigan certification for social studies teachers. F.

ENVIRON 111 / CLIMATE 172 / EARTH 172 / GEOG 111. Climate Change and Sustainability: Environmental Challenges of the 21st Century

(4). (ID). (BS). (QR/2). May not be repeated for credit. Satisfies the geography requirement for State of Michigan certification for social studies teachers. W.

ENVIRON 112. Climate and Humankind

(1). (NS). (BS). May not be repeated for credit. No credit granted to those who have completed or are enrolled in GEOSCI 151 or 331, or EARTH 151 or 331.

ENVIRON 116 / EARTH 116. Introductory Geology in the Field

(6 in the half-term). (NS). (BS). May not be repeated for credit. Reduced credit: Students who have completed GEOSCI 117 or EARTH 117 or ENVIRON 117 receive 2 credits; GEOSCI 119 or 120 or EARTH 119 or 120 or ENVIRON 119 or 120, 3 credits; GEOSCI 205 AND 206 or EARTH 205 AND 206 or ENVIRON 206, 3 credits; one of GEOSCI 205 or 206 or EARTH 205 or 206 or ENVIRON 206, 4 credits. Su at Camp Davis, Wyoming.

ENVIRON 118 / EARTH 118. Introductory Earth Science Laboratory

Prior or concurrent enrollment in EARTH 119, or 205 and 206, or 284. (1). (NS). (BS). May not be repeated for credit. No credit if completed an

introductory course in geology (EARTH/ENVIRON 116, 117, or 120). F, W.

ENVIRON 119 / EARTH 119. Introduction to Earth Science

Concurrent enrollment in ENVIRON or EARTH (GEOSCI) 118 for the lab. (3). (NS). (BS). May not be repeated for credit. No credit granted to those who have completed GEOSCI 116, 117, or 120. No credit granted to those who have completed or are enrolled in EARTH/ENVIRON 116, 117, or 120. No credit granted to those who have completed both EARTH/ENVIRON 205 and EARTH/ENVIRON 206. Two credits granted to those who have completed one of EARTH/ENVIRON 205 or EARTH/ENVIRON 206. F, W.

ENVIRON 120 / EARTH 120. Geology of National Parks and Monuments

(4). (NS). (BS). May not be repeated for credit. No credit if completed EARTH (GEOSCI)/ENVIRON 116, 117, or 119, or both EARTH (GEOSCI) 205 AND EARTH (GEOSCI)/ENVIRON 206. Only 3 credits with EARTH (GEOSCI) 205 or EARTH (GEOSCI)/ENVIRON 206.

ENVIRON 131 / EARTH 131. Earth and Environmental Chemistry

(4). (NS). (BS). (QR/2). May not be repeated for credit. No credit granted to those who have completed or are enrolled in CHEM 130 (Gen Chem).

ENVIRON 139. First-Year Seminar in the Environment

Enrollment restricted to first-year students, including those with sophomore standing. (3). (ID). May not be repeated for credit.

ENVIRON 152. Topics in Environmental Social Science

(1 - 4). (SS). May be repeated for a maximum of 9 credits.

ENVIRON 154. Topics in Culture and Environment

(1 - 4). (HU). May be repeated for a maximum of 9 credits.

ENVIRON 155. Interdisciplinary Environmental Topics

(1 - 4). (ID). May be repeated for a maximum of 9 credits.

ENVIRON 167 / ANTHRPIO 167. Evolution, Environment, and Global Health

(4). (NS). (BS). May not be repeated for credit.

ENVIRON 201 / RCNCSI 202. Ecological Issues

(4). (NS). (BS). May not be repeated for credit.

ENVIRON 202 / EARTH 202. Introduction to Earth and Environmental Sciences in the Rockies

(6). (NS). (BS). May not be repeated for credit. No credit granted to those who have completed GEOSCI 201. No credit granted to those who have completed or are enrolled in EARTH 201 or ENVIRON 209 or GEOG 201.

ENVIRON 204. Under Pressure: Water Systems, Society, and the Environment

(3). (ID). May not be repeated for credit.

ENVIRON 206 / EARTH 206. How the Earth Works: The Water Cycle and Environment

(2). (NS). (BS). May not be repeated for credit. No credit granted to those who have completed or are enrolled in EARTH 277. Those with credit for GEOSCI 109 or EARTH 109 may only elect EARTH 206 or ENVIRON 206 for 1 credit.

ENVIRON 207 / STS 207. Sustainability and Society

(3). (SS). May not be repeated for credit.

ENVIRON 208 / ORGSTUDY 208. Business and Sustainability

(3). (SS). May not be repeated for credit.

ENVIRON 209 / AAS 261 / INTLSTD 210. Nature and Power: An Introduction to Political Ecology

(4). (SS). May not be repeated for credit.

ENVIRON 210 / PHYSICS 210. Sustainable Energy Futures

(3). (NS). (BS). May not be repeated for credit.

ENVIRON 219 / MIDEAST 209. Food and Drink in the Middle East

(4). (SS). May not be repeated for credit.

ENVIRON 222. Introduction to Environmental Justice

(3). (SS). (R&E). May not be repeated for credit.

ENVIRON 228 / EARTH 218. Introduction to Environmental Science Laboratory

Prior or concurrent enrollment in EARTH 219 or ENVIRON 229. (Prerequisites enforced at registration.) (1). (NS). (BS). May not be repeated for credit. No credit granted for those who have completed or are enrolled in EARTH/ENVIRON 284.

ENVIRON 229 / EARTH 219. Introduction to Environmental Science

(3). (NS). (BS). May not be repeated for credit. No credit granted for those who have completed or are enrolled in EARTH/ENVIRON 202, EARTH/ENVIRON 284.

ENVIRON 230 / EARTH 230. Natural and Environmental Hazards: Uncertainties, Risks, and Forecasts

(3). (NS). (BS). May not be repeated for credit.

ENVIRON 232 / EARTH 222. Introductory Oceanography

(3). (NS). (BS). (QR/2). May not be repeated for credit. No credit granted to those who have completed or are enrolled in AOSS 203.

ENVIRON 233 / EARTH 223. Introductory Oceanography, Laboratory

(1). (NS). (BS). (QR/2). May not be repeated for credit.

ENVIRON 235. Environmental Economics, Policy, and Justice

(3). (SS). May not be repeated for credit.

ENVIRON 236 / HISTORY 236. Environment and History in Preindustrial Europe

(3). (ID). May not be repeated for credit.

ENVIRON 237 / HISTORY 237 / STS 237. Global Environmental History

(4; 3 in the half-term). (ID). May not be repeated for credit.

ENVIRON 242. Topics in Environmental Social Science

(1 - 4). (SS). May be repeated for a maximum of 12 credits.

ENVIRON 244. Topics in Culture and Environment

(1 - 4). (HU). May be repeated for a maximum of 12 credits.

ENVIRON 245. Interdisciplinary Environmental Topics

(1 - 4). (ID). May be repeated for a maximum of 12 credits.

ENVIRON 250 / CMPLXSYS 250 / PUBPOL 250. Energy and Climate Change: Technology, Markets, and Policy

(3). (BS). (QR/1). May not be repeated for credit.

ENVIRON 256 / ANTHRCUL 256. Culture, Adaptation, and Environment

(3). (SS). May not be repeated for credit.

ENVIRON 258 / ASIAN 258. Food and Drink of Asia

(4). (HU). May not be repeated for credit.

ENVIRON 262 / EARTH 262. Plants and People

(3). (NS). (BS). May not be repeated for credit.

ENVIRON 270 / RCIDIV 270. Globalization and its Discontents: Struggles for Food, Water, and Energy

(4). (ID). May not be repeated for credit.

ENVIRON 277 / CLCIV 277 / HISTORY 277. Environmental History of the Ancient Mediterranean

(3). (HU). May not be repeated for credit.

ENVIRON 281 / BIOLOGY 281. General Ecology

BIOLOGY 171, (172 or 174), & 173; or BIOLOGY 192 & 173; or BIOLOGY 195 & 173; AND a laboratory course in CHEM. (3). (NS). (BS). May not be repeated for credit. No credit granted to those who have completed or are enrolled in EEB 381 or ENVIRON 381.

ENVIRON 282 / BIOLOGY 282. General Ecology (UMBS)

BIOLOGY 171, (172 or 174) & 173; or BIOLOGY 195 & 173; AND a laboratory course in CHEM. (3 in the half-term). (BS). May not be repeated for credit. No credit granted to students who have completed or are enrolled in BIOLOGY/ENVIRON 281.

ENVIRON 300. Special Problems and Research

Consent of instructor required. (1 - 4). (INDEPENDENT). May be repeated for a maximum of 8 credits.

ENVIRON 302. Topics in Environmental Social Science

(1 - 4). (SS). May be repeated for a maximum of 12 credits.

ENVIRON 303. Topics in Environmental Natural Science

(1 - 4). (NS). (BS). May be repeated for a maximum of 12 credits.

ENVIRON 304. Topics in Culture and Environment

(1 - 4). (HU). May be repeated for a maximum of 12 credits.

ENVIRON 305. Interdisciplinary Environmental Topics

(1 - 4). (ID). May be repeated for a maximum of 12 credits.

ENVIRON 306. Global Water

(3). (SS). May not be repeated for credit.

ENVIRON 307 / POLSCI 309. Theoretical Perspectives on Environmental Change

POLSCI 101. (3 - 4). (SS). May be elected twice for credit.

ENVIRON 308 / STS 308. Sustainability and Health

(3). (SS). May not be repeated for credit.

ENVIRON 309 / EARTH 309. GIS Explorations of the Past, Present, and Future

General computer experience is required, including word processing, spreadsheets, and presentations. (3). (ID). (BS). May not be repeated for credit. No credit granted to those who have completed or are enrolled in ENVIRON 339: GIS Explorations: Past, Present and Future at the University of Michigan Biological Station (UMBS).

ENVIRON 310 / EARTH 310. Toxicology: The Study of Environmental Chemicals and Disease

BIOLOGY 171 or BIOLOGY 195 (AP). (3). (NS). (BS). May not be repeated for credit.

ENVIRON 312 / POLSCI 380 / PUBPOL 312. Environmental Politics and Policy

(3). May not be repeated for credit.

ENVIRON 314. Food Literacy for All

No credit is granted to those who have completed ENVIRON 305 "Food Literacy for All" (Topic #5). (Prerequisites enforced at registration.) (2). (ID). May not be repeated for credit.

ENVIRON 315 / EEB 315. The Ecology and Evolution of Infectious Diseases

BIOLOGY 100; or BIOLOGY 171, (172 or 174) & 173; or BIOLOGY 195 & 173. (3). (NS). (BS). May not be repeated for credit.

ENVIRON 317. Conservation of Biological Diversity

(3). (NS). (BS). May not be repeated for credit.

ENVIRON 320 / ENGLISH 343 / STS 330. Environmental Journalism: Reporting About Science, Policy, and Public Health

Completion of First-Year Writing Requirement. (3). (ID). May not be repeated for credit.

ENVIRON 321. Climate Change and Adaptation

(3). (SS). May not be repeated for credit.

ENVIRON 322 / ENGLISH 320. Literature and the Environment

(3 - 4; 2 - 3 in the half-term). (HU). May not be repeated for credit.

ENVIRON 323 / GERMAN 323. Environmentalism and Ecocriticism

No credit in GERMAN 303 or ENVIRON 304 with the topic "Environmentalism and Ecocriticism.". (Prerequisites enforced at registration.) (3). (HU). May not be repeated for credit.

ENVIRON 325 / EARTH 325. Environmental Geochemistry

EARTH/ENVIRON 131 or CHEM 130. (Prerequisites enforced at registration.) (4). (NS). (BS). May not be repeated for credit.

ENVIRON 331 / EEB 321. Rivers, Lakes, and Wetlands: Introduction to Aquatic Ecosystems (UMBS)

Consent of department required. One course in BIOLOGY. (3 in the half-term). (NS). (BS). May not be repeated for credit. No credit granted to those who have completed or are enrolled in ENVIRON 311/EEB 320 (Rivers, Lakes and Wetlands).

ENVIRON 332 / EARTH 331. Climate and Climate Change

A working knowledge of high school algebra and physical sciences. (4). (NS). (BS). May not be repeated for credit. Those with credit for EARTH 144 may only elect EARTH 331 for 3 credits.

ENVIRON 333 / EARTH 333. The Inexhaustible Seas? Marine Resources and Environmental Issues

EARTH (GEOSCI) 116, 119, 125, 120, 222, or 284. (4). (NS). (BS). May not be repeated for credit. No credit granted to those who have completed GEOSCI 154, and no credit granted to those who have completed or are enrolled in EARTH 154.

ENVIRON 335 / AAS 322. Introduction to Environment Politics: Race, Class, and Gender

(4; 3 in the half-term). (SS). (R&E). May not be repeated for credit.

ENVIRON 337 / RCHUMS 337. Children Under Fire: Narratives of Sustainability

(3). (HU). May not be repeated for credit.

ENVIRON 344 / EARTH 344. Sustainable and Fossil Energy: Options and Consequences

Consent of department required. At least one previous course in physical sciences or engineering. (4 in the half-term). (NS). (BS). May not be repeated for credit.

ENVIRON 348 / EEB 348. Forest Ecosystems (UMBS)

Consent of department required. *BIOLOGY 171*, (172 or 174) & 173; or *BIOLOGY 192 & 173*; or *BIOLOGY 195 & 173*. (3 in the half-term). (NS). (BS). May not be repeated for credit. Su at Biological Station.

ENVIRON 350 / RCSTP 351. The Built Environment: Introduction to Landscape Change

(3). (ID). May not be repeated for credit.

ENVIRON 351 / ASIAN 351 / INTLSTD 351. Chinese Food in Crisis: Health, Ecology, and Identity in an Age of Globalization

ASIAN 258, *ASIAN 366*, or coursework in Chinese Studies or Sustainability. (3). (ID). May not be repeated for credit.

ENVIRON 355 / ENGLISH 355. Southern Natures: The Making and Unmaking of Races and Environments in the US South

(3). (HU). May not be repeated for credit.

ENVIRON 357 / ARCH 357 / URP 357. Architecture, Sustainability and the City: Ideas, Forces and People Shaping the Built Environment

(HU). May not be repeated for credit.

ENVIRON 360 / PSYCH 360. Behavior and Environment

(3). (SS). May not be repeated for credit.

ENVIRON 361 / PSYCH 362. The Psychology of Environmental Stewardship

(3). (SS). May not be repeated for credit.

ENVIRON 362 / ANTHBIO 362 / EEB 362. Primate Evolutionary Ecology

An introductory course on primates, ecology, or conservation biology is advised. No quantitative or statistical training is required. (4). (NS). (BS). May not be repeated for credit.

ENVIRON 363 / ARTDES 360. Community Partnered Design-Build

No credit in *ARTDES 310* with topic 'Community Partner Design-Build' or *ENVIRON 305* with topic 'Comm Prtnr Des/Build'. (Prerequisites enforced at registration.) Aca. May not be repeated for credit.

ENVIRON 370 / ARCH 423 / URP 423. Introduction to Urban and Environmental Planning

(3 - 5). May not be repeated for credit.

ENVIRON 372 / EEB 372. General Ecology Laboratory

BIOLOGY 171, (172 or 174) & 173; or *BIOLOGY 195 & 173*; AND concurrent or prior enrollment in *BIOLOGY 281/ENVIRON 281*. (3). (NS). (BS). May not be repeated for credit.

ENVIRON 373 / EEB 373. General Ecology Lab (UMBS)

BIOLOGY 171, (172 or 174) and 173; or *BIOLOGY 195 and 173*; AND a laboratory course in *CHEM*. (3 in the half-term). (NS). (BS). May not be repeated for credit. No credit granted to those who have completed or are enrolled in *EEB/ENVIRON 372*.

ENVIRON 375 / ECON 370. Environmental and Resource Economics

ECON 101. (Prerequisites enforced at registration.) (3). (SS). May not be repeated for credit. No credit granted to those who have completed or are enrolled in *ECON 471* or *472*, or *NRE 571* or *583*.

ENVIRON 376 / PHIL 376. Environmental Ethics-Living Well with Nature

(3). (HU). May not be repeated for credit.

ENVIRON 380 / EARTH 380. Natural Resources, Economics, and the Environment

No previous courses in Geology or other sciences are required. (4; 3 - 4 in the half-term). (NS). (BS). (QR/2). May not be repeated for credit.

ENVIRON 387 / RELIGION 386. Ecology and Religion

(3). (HU). May not be repeated for credit.

ENVIRON 390 / RCSTP 391. Environmental Activism: Citizenship in a Republic

It is best to have at least one environmental course prior to this class. (3). (ID). May not be repeated for credit.

ENVIRON 391 / ORGSTUDY 391 / RCIDIV 391. Sustainability and the Campus

An introductory course in Environment, Earth, or related field (e.g., *ENVIRON 110*, *111*, *201*, *270*). (4). (ID). May not be repeated for credit.

ENVIRON 392 / ARCHAM 382 / CLCIV 382. Food in the Ancient World: Subsistence and Symbol

(3). (HU). May not be repeated for credit.

ENVIRON 398. Environment Internship Program

Consent of instructor required. (1 - 4). (EXPERIENTIAL). May be repeated for a maximum of 9 credits. Offered mandatory credit/no credit.

ENVIRON 399. Junior Honors Seminar

Consent of instructor required. (3). May not be repeated for credit.

ENVIRON 400. Special Problems and Research

Consent of department required. (1 - 4). (INDEPENDENT). May be repeated for a maximum of 8 credits.

ENVIRON 403 / EARTH 408. Introduction to GIS in the Earth Sciences

An introductory geology or environmental sciences course (*EARTH 116*, *119*, *120*, *201*, *202*, *219* or *284*) and one math course or a statistics course (*MATH 115*, *116*, *120*, *121*, *156*, *175*, *176*, *185*, *186*, *295*, *296*, *STATS 150*, *180*, *250*, *280*). (Prerequisites enforced at registration.) Although previous GIS experience is not required, students are expected to be familiar with desktop and mobile computing, and to be comfortable with at least one quantitative software program (Matlab, Excel, Mathematica, or R, as examples). (3). (BS). May not be repeated for credit.

ENVIRON 407 / CEE 307. Sustainable Cities

Junior or Senior standing and two environmental science classes. (3). (BS). May not be repeated for credit.

ENVIRON 408. Land Use Policy, Law, and the Environment

Junior or senior status. (3). May not be repeated for credit.

ENVIRON 409 / EAS 409 / EEB 487. Ecology of Fishes

BIOLOGY 162 or *171*, *172* and *173*. (3 - 4). (BS). May not be repeated for credit. W. (Lectures: 3 credits; lectures and lab: 4 credits).

ENVIRON 411 / EAS 531. Principles of Geographic Information Systems

Senior undergraduate or graduate standing. (BS). May not be repeated for credit.

ENVIRON 412 / PUBPOL 412. Environmental Values in Public Policy

(3). May not be repeated for credit.

ENVIRON 413 / COMM 413. Environmental Communication

(3). May not be repeated for credit.

ENVIRON 418 / ORGSTUDY 418. Leadership and Environmental Stewardship in Organizations

(3). May not be repeated for credit.

ENVIRON 419 / ORGSTUDY 419. Business, Sustainability, and Justice

(3). May not be repeated for credit.

ENVIRON 421. Restoration Ecology

BIOLOGY/ENVIRON 281 and EEB/ENVIRON 372 OR EEB/ENVIRON 381. (4). (BS). May not be repeated for credit. Rackham credit requires additional work.

ENVIRON 422 / EAS 422 / EEB 440. Biology of Fishes

BIOLOGY 162 or 171, 172 and 173. (3). (BS). May not be repeated for credit. F.

ENVIRON 423 / EAS 423 / EEB 441. The Biology of Fishes Laboratory

BIOLOGY 162 or 171, 172 and 173. (1). (BS). May not be repeated for credit.

ENVIRON 424. Stream Restoration: Concepts and Applications

Introductory Physics. (3). (BS). May not be repeated for credit. Rackham credit requires additional work.

ENVIRON 426 / CLIMATE 421 / EARTH 421. Introduction of Physical Oceanography

MATH 115 and 116, and an introductory science course. (3). (BS). May not be repeated for credit. Rackham credit requires additional work.

ENVIRON 430 / EAS 430 / EEB 489. Soil Ecology

BIOLOGY 162 or 171 and 172 and 173, and General Chemistry. Concurrent enrollment in ENVIRON 436/EEB 436 and ENVIRON 435/EAS 435 highly recommended. (3). (BS). May not be repeated for credit. F.

ENVIRON 433 / EAS 433 / EEB 433. Ornithology

BIOLOGY 171, 172 or 174, and 173, or BIOLOGY 192 and 173; or BIOLOGY 195 & 173. (4). (BS). May not be repeated for credit.

ENVIRON 434. Poverty and the Environment in the US and Colombia: Learning through Podcast Creation

No credit for ENVIRON 464 with the topic Poverty & the Environment in the US & Colombia: Int'l Podcasting. (Prerequisites enforced at registration.) Intermediate fluency in Spanish is needed (second-year or above); proficiency in Spanish is not required. (3). May not be repeated for credit. Rackham credit requires additional work.

ENVIRON 436 / EAS 436 / EEB 436. Woody Plants: Biology and Identification

BIOLOGY 171 or equivalent. (4). (BS). May not be repeated for credit. Rackham credit requires additional work.

ENVIRON 437 / EARTH 427. Environmental and Technological Applications of Mineralogy

EARTH (GEOSCI) 315 or comparable courses in the solid-state. (3). (BS). May not be repeated for credit.

ENVIRON 438 / EAS 518. Wildlife Ecology and Management

BIOLOGY 171, plus one Introductory Interdisciplinary Environment course such as ENVIRON 110, ENVIRON 111, or ENVIRON 201. (3). (BS). May not be repeated for credit.

ENVIRON 441 / EAS 541. Remote Sensing of Environment

Consent of instructor required. (BS). May not be repeated for credit.

ENVIRON 442 / EARTH 442. Earth Surface Processes and Soils

MATH 115 and (EARTH 131 or CHEM 130). (4). (BS). May not be repeated for credit.

ENVIRON 446 / EARTH 446. Paleoclimatology

MATH 115 and 116 and EARTH 305, or permission of instructor. (4). (BS). May not be repeated for credit. Rackham credit requires additional work.

ENVIRON 450 / EARTH 450. Ecosystem Science in the Rockies

Introductory Geology [EARTH 119&118 or 116 or 120; or ENVIRON 119&118 or 116] AND BOTH EARTH/EEB 313 AND EARTH/ENVIRON 325. (Prerequisites enforced at registration.) (6 in the half-term). (NS). (BS). May not be repeated for credit.

ENVIRON 451 / EAS 451 / EEB 451. Biology of Mammals

BIOLOGY 171, (172 or 174) & 173; or BIOLOGY 192 & 173; or BIOLOGY 195 & 173. (4). (BS). May not be repeated for credit.

ENVIRON 453. Tropical Conservation and Ecology

One Introductory Interdisciplinary Environment course, such as ENVIRON 110, 111, or 201. (3). (BS). May not be repeated for credit. Rackham credit requires additional work.

ENVIRON 457 / AAS 457 / EAS 457. When China Comes to Town: Environment and the Politics of Development in Africa

(3). May not be repeated for credit.

ENVIRON 461 / ANTHRBIO 461. Primate Conservation Biology

An introductory course on primates, ecology, or conservation biology is advised. No quantitative or statistical training is required. (3). (BS). May not be repeated for credit.

ENVIRON 462. Topics in Environmental Social Science

At least one environmentally related course prior to this class. (1 - 4). May be repeated for a maximum of 12 credits. Rackham credit requires additional work.

ENVIRON 464. Topics in Culture and Environment

At least one environmentally related course prior to this class. (1 - 4). May be repeated for a maximum of 12 credits. Rackham credit requires additional work.

ENVIRON 465. Interdisciplinary Environmental Topics

At least one environmentally related course prior to this class. (1 - 4). May be repeated for a maximum of 12 credits. Rackham credit requires additional work.

ENVIRON 473 / ANTHRBIO 463 / PSYCH 463. Statistical Modeling and Data Visualization in R

Basic knowledge of statistics (e.g., linear regression). Some prior experience with R is advisable, but not required. (4). (BS). (QR/1). May not be repeated for credit. Rackham credit requires additional work.

ENVIRON 475 / EAS 475 / EHS 588. Environmental Law

(3). May not be repeated for credit.

ENVIRON 476 / EAS 476 / EEB 476. Ecosystem Ecology

General Ecology and a 400-level course in Aquatic or Terrestrial Ecology. (3). (BS). May not be repeated for credit. W.

ENVIRON 499. Senior Honors Thesis

Consent of instructor required. ENVIRON 399 and permission of instructor. (1 - 6). (INDEPENDENT). May be repeated for a maximum of 6 credits. Continuing Course. Y grade can be reported at end of the first-term to indicate work in progress. At the end of the second term, the final grade is posted for both term's elections.

SNE School of Natural Resources and Environment

Courses In Environment and Sustainability (EAS)

EAS 409 / EEB 487 / ENVIRON 409. Ecology of Fishes

BIOLOGY 162 or 171, 172 and 173. (3 - 4). (BS). May not be repeated for credit.

EAS 422 / EEB 440 / ENVIRON 422. Biology of Fishes

BIOLOGY 162 or 171, 172 and 173. (3). (BS). May not be repeated for credit.

EAS 423 / EEB 441 / ENVIRON 423. The Biology of Fishes Laboratory

BIOLOGY 162 or 171, 172 and 173. (1). (BS). May not be repeated for credit.

EAS 430 / EEB 489 / ENVIRON 430. Soil Ecology

BIOLOGY 162 or 171 and 172 and 173, and General Chemistry. Concurrent enrollment in ENVIRON 436/EEB 436 and ENVIRON 435/EAS 435 highly recommended. (3). (BS). May not be repeated for credit.

EAS 433 / EEB 433 / ENVIRON 433. Ornithology

BIOLOGY 171, 172 or 174, and 173, or BIOLOGY 192 and 173; or BIOLOGY 195 & 173. (4). (BS). May not be repeated for credit.

EAS 436 / EEB 436 / ENVIRON 436. Woody Plants: Biology and Identification

BIOLOGY 171 or equivalent. (4). (BS). May not be repeated for credit. Rackham credit requires additional work.

EAS 451 / EEB 451 / ENVIRON 451. Biology of Mammals

BIOLOGY 171, (172 or 174) & 173; or BIOLOGY 192 & 173; or BIOLOGY 195 & 173. (4). (BS). May not be repeated for credit.

EAS 457 / AAS 457 / ENVIRON 457. When China Comes to Town: Environment and the Politics of Development in Africa

(3). May not be repeated for credit.

EAS 475 / EHS 588 / ENVIRON 475. Environmental Law

(3). May not be repeated for credit.

EAS 476 / EEB 476 / ENVIRON 476. Ecosystem Ecology

General Ecology and a 400-level course in Aquatic or Terrestrial Ecology. (3). (BS). May not be repeated for credit.

EAS 518 / ENVIRON 438. Wildlife Ecology and Management

BIOLOGY 171, plus one Introductory Interdisciplinary Environment course such as ENVIRON 110, ENVIRON 111, or ENVIRON 201. (3). (BS). May not be repeated for credit.

EAS 531 / ENVIRON 411. Principles of Geographic Information Systems

Senior undergraduate or graduate standing. (BS). May not be repeated for credit.

EAS 541 / ENVIRON 441. Remote Sensing of Environment

Consent of instructor required. (BS). May not be repeated for credit.

SPH Biostatistics Department

Courses In Biostatistics (BIOSTAT)

BIOSTAT 449 / STATS 449. Topics in Biostatistics

Linear Regression (STATS 401 or STATS 413 or ECON 452 or IOE 366). (Prerequisites enforced at registration.) (3). (BS). May not be repeated for credit.

SPH Environmental Health Sciences

Courses In Environmental Health Sciences (EHS)

EHS 588 / EAS 475 / ENVIRON 475. Environmental Law

(3). May not be repeated for credit.

SPH Epidemiology Department

Courses In Epidemiology (EPID)

EPID 638 / CMLXSYS 530. Computer Modeling of Complex Systems

CMLXSYS 270 or some experience with computer programming and math modeling concepts. (3). (BS). May not be repeated for credit.

SPH Health Behavior and Health Education

SPH Public Health

Courses In Public Health (PUBHLTH)

PUBHLTH 250 / ALA 251. On Purpose: Designing and Living a Big Life
(ID). May not be repeated for credit.

SPP: Gerald R. Ford School of Public Policy

Courses In Public Policy (PUBPOL)

PUBPOL 201 / POLSCI 325. Systematic Thinking About the Problems of the Day
One additional introductory social science course. (4). (SS). May not be repeated for credit.

PUBPOL 240 / STS 240. Introduction to Technology Policy
May not be repeated for credit.

PUBPOL 250 / CMLXSYS 250 / ENVIRON 250. Energy and Climate Change: Technology, Markets, and Policy
(3). (BS). (QR/1). May not be repeated for credit.

PUBPOL 312 / ENVIRON 312 / POLSCI 380. Environmental Politics and Policy
(3). May not be repeated for credit.

PUBPOL 412 / ENVIRON 412. Environmental Values in Public Policy
(3). May not be repeated for credit.

PUBPOL 428 / ASIAN 490 / SOC 428. Contemporary China
One introductory course in sociology. (3). May not be repeated for credit. Rackham credit requires additional work.

SRC-PSM Graduate Program