

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

LSA Bulletin, 2021-22

Requirements & Programs

This document is an unofficial representation of the information available on the LSA website. For official and updated information, please view the LSA website: <http://lsa.umich.edu/lsa/academics/>

LSA Degrees

This document is an unofficial representation of the information available on the LSA website. For official and updated information, please view the LSA website: <http://lsa.umich.edu/lsa/academics/lsa-degrees.html>

LSA Degrees

Degrees and Selection of a Degree Program

The College awards three 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 (124 for B.S.Chem.). 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., B.S.Chem.)

- [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., B.S.Chem.)

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., B.S.Chem.)

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., B.S.Chem.)

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.S.Chem.)

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.S.Chem.)

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.S.Chem.)

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.S.Chem.)

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](#)

Joint Degrees

Several special degree programs are offered by the joint cooperation of LSA and other colleges or schools within the University. Admission to some of these programs is highly competitive. Because many of these programs require specific courses for admission, it is important for students to identify program interests early in their undergraduate careers. Although the basic requirements are summarized on this page, students should consult academic advisors associated with the various programs.

Joint Undergraduate Degree Programs

Architecture (Joint Program in Liberal Arts and B.S. in Architecture)

Students may earn the [B.S. degree awarded](#) by the Taubman College of Architecture and Urban Planning and a second degree awarded by LSA.

Art and Design (Joint Program in Liberal Arts and Art and Design)

These [joint degree programs](#) are intended for students whose educational goals include earning undergraduate degrees from both LSA and the Stamps School of Art & Design.

Engineering (Joint Program in Liberal Arts and B.S. in Engineering)

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.

Music (Joint Degree Program in Liberal Arts and Music)

These [joint degree programs](#) are intended for students who seek to combine LSA's technical or academic studies in combination with the professional training in performance-based or academic music studies of the School of Music, Theatre & Dance.

Joint Undergraduate-Graduate Degree Programs

[The Concurrent Undergraduate-Graduate Studies Program](#)

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. See the [CUGS information sheet and election form](#) for more information. The Center for Russian, East European, and Eurasian Studies also offers a [Concurrent Undergraduate-Graduate Study Program](#).

[Engineering \(Bachelor of Science in Cell and Molecular Biology and Master of Science in Biomedical Engineering\)](#)

The Department of Molecular, Cellular, and Developmental Biology in LSA and the Department of Biomedical Engineering in the College of Engineering administer a five-year program awarding a concurrent B.S. in cell and molecular biology from LSA and an M.S. in biomedical engineering from the College of Engineering.

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.

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 in the new field of the major. Graduates of another Ann Arbor unit must earn at least 30 credits while registered in 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 also 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 Advising Center](#).

LSA Requirements

This document is an unofficial representation of the information available on the LSA website. For official and updated information, please view the LSA website: <http://lsa.umich.edu/lsa/academics/lsa-requirements.html>

Rules for Degree Requirements

As a student, you are responsible for knowing and meeting the requirements for you to earn 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](#)

- [How to Compute an Honor Point Deficit](#)
- [Why Honor Points Matter](#)

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.

Below 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.

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
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).

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.

Extremely large cumulative honor point deficits can lead to suspension or dismissal from the College. There may also be problems with your major grade point average. Large major deficits will necessitate a change of major.

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.

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. 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.

Writing Placement

To help students choose their first writing course at the University, the Sweetland Center for Writing provides the First-Year and Transfer Directed Self-Placements for Writing. Neither Directed Self-Placement (DSP) is a test. Rather, each DSP is designed to give students insight into the kind of writing expected of undergraduates at the University of Michigan in order to help them judge their own readiness for and comfort with college-level writing. The specific DSP students must complete depends upon whether they have already met the FYWR with a transferred course.

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 minimum course grade of C– 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 computer science 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

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. Foreign language departments rarely grant exceptions to this policy but may do so—only prior to the student's electing out-of-residence language courses—due to a student's extenuating circumstances. Language departments vary widely in their flexibility for approving plans in advance; therefore, students pursuing this option must first find out if the department will consider making an exception.
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 (AAPTIS 582)
 - Modern Standard (one of: ARABIC 202, 205, 421, 426 [or AAPTIS 202, 205, 216, 218] or AAPTIS 204, 419, 420)
 - Armenian
 - Eastern (ARMENIAN 206 [or AAPTIS 282 or ARMENIAN 282])
 - Western (ARMENIAN 202 [or AAPTIS 272 or 273, or ARMENIAN 272 or 273])
 - Bosnian, Croatian, and Serbian (BCS 232 or 225)
 - Central Asian Languages (NESLANG 481 [or AAPTIS 250 or ASIANLAN 250])
Uzbek, Kazakh, Uyghur, Pashto, or Tajik
 - 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)
- 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)
- Uzbek (AAPTIS 253)
- Vietnamese (ASIANLAN 276)
- Yiddish (YIDDISH 202 or JUDAIC 202 or GERMAN 228)

Students who wish to meet the requirement with proficiency in a language not listed in the table above should contact the Academic Standards Board.

3. 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; SPANISH 278/AMCULT 224; 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. Students with academic interests outside existing majors may propose their own major and, on approval, elect an Individualized Major Program within [Honors](#) or the [Residential College](#).

Current Policies

Effective Winter 2019 | [Prior Policies](#)

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.

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.

Policies for the Major (Effective through Fall 2015)

Effective Winter 2016 - Fall 2018

Effective Through 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 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 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

Current Policies

Effective Winter 2020 | [Previous Policies](#)

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 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.

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 College of Pharmacy is the only undergraduate unit that does *not* allow students to elect LSA minors.

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. Health
2. Health and fitness leadership
3. 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 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.

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 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.

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 | [Previous Requirements](#)

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

This document is an unofficial representation of the information available on the LSA website. For official and updated information, please view the LSA website: <http://lsa.umich.edu/lsa/academics/lsa-academic-policies.html>

LSA Academic Policies

The Academic Policy portion of the LSA website governs the conduct of academic matters affecting students enrolled in the College. Exceptions to these policies may be granted only upon written petition to the Academic Standards Board.

Honors students petition the [Honors Academic Board](#); Residential College students petition the [RC Board on Academic Standing](#) (BOAS).

Credit Limits

- [Non-LSA Coursework](#)
- [Non-Graded Courses \(P/F, CR/NC, S/U\)](#)
- [Experiential and Directed Reading/Independent Study](#)
- [60 Credits in One Department](#)
- [Transfer Credit](#)
- [Repetition and Out of Sequence](#)

Special Kinds of Credit

- [Test Credit \(AP, CLEP, IB, A-Level, etc.\)](#)
- [Retroactive Language Credits](#)

Transfer Information & Registration Policy

- [Transfer Within the U-M System](#)
- [Transfer Credit Equivalency Search](#)
- [Transfer Credit Equivalency Request Form](#)
- [Michigan Uniform Guest Application](#)

Registration and Enrollment

- [Accuracy of Schedule](#)
- [Class Attendance](#)
- [Drop/Add](#)
- [Withdrawal from the College](#)
- [Pass/Fail](#)
- [Full Time vs Part Time Status](#)
- [Class Standing](#)
- [Closed Course, Waitlist, and Override Information](#)
- [Final Exams](#)
- [Dual Enrollment](#)
- [Readmission](#)

- [Auditing Courses](#)

Your Academic Record

- [Student Records Policy](#)
- [Transcripts, Notations and Grades](#)
- [Grading Issues](#)
- [Grade Grievance](#)
- [Honors and Awards](#)
- [Dean's Certification Forms](#)

Credit Limits

Select an option below to learn more about:

- [Experiential and Directed Reading / Independent Study](#)
- [Non-LSA Course Work](#)
- [Non-Graded Courses \(P/F, CR/NC, S/U\)](#)
- [Transfer Credit](#)
- [60 credits in one department](#)
- [Repetition and Out of Sequence Courses](#)

Non-LSA Coursework

Students in LSA must complete a program of study consisting of courses primarily from LSA or equivalent transfer credit.

Undergraduate LSA courses are listed in the [LSA Undergraduate Course Catalog](#). Courses offered by other academic units (e.g., the Stephen M. Ross School of Business, the School of Education, the College of Engineering, etc.) of the University of Michigan (Ann Arbor) and not listed in the [LSA Undergraduate Course Catalog](#) are defined as non-LSA courses.

Non-LSA coursework earns credit toward a degree and honor points according to the following policies:

1. Candidates for an A.B., B.S., or B.G.S. degree must complete a minimum 100 credits of LSA courses, allowing 20 credits of non-LSA coursework in the minimum 120 required for the degree. Non-LSA credits in excess of 20 will be included in the calculation of a student's GPA but will not be counted toward the 120 credits needed for a bachelor's degree in LSA.
2. Courses cross-listed between LSA and another school or college of the University of Michigan(Ann Arbor) count toward the required number of LSA credits.
3. School of Kinesiology courses cross-listed with an LSA SUBJECT count for degree credit as LSA courses.
 - a. All other [School of Kinesiology courses](#) are recorded as "not for credit" for LSA students except for the courses for which LSA students may receive non-LSA degree credits.
4. University of Michigan School of Music, Theatre & Dance ensemble courses yield non-LSA

- degree credit but no honor points (except for those cross-listed with LSA: ENS 405, 406, 407).
5. Transfer credit for journalism courses are counted as non-LSA.
 6. The College does not grant degree credit for any courses offered through the **Military Officer Education Programs** except for those courses cross-listed in other academic units.

School of Kinesiology Courses

All School of Kinesiology courses not listed here are recorded as "not for credit" for LSA students.

LSA Credit (School of Kinesiology courses cross-listed with an LSA SUBJECT count for degree credits LSA courses)

- **KINESLGY**
 - KINESLGY 505. Disability Studies.
- **SM**
 - SM 421. Gender and Sport.

Non-LSA (Approved for LSA Degree Credit as non-LSA Courses)

- **AT**
 - AT 220. Anatomy & Physiology.
 - AT 221. Human Anatomy Lab.
- **HF**
 - HF 220. Anatomy & Physiology.
 - HF 221. Appl Hum Anat Lab.
 - HF 240. Intro to Fit&Heath
 - HF 241. Ex Nutr Wt Cn.
 - HF 331. Biomech Sprt Ftns.
 - HF 333. Legal Iss Sprt Ftns.
 - HF 425. PA&Ped Disability.
 - HF 434. Mgr Thcs Sprt Fitns.
 - HF 437. Psych Sports&Excer.
 - HF 446. Soc Factors Phys Act
- **KINESLGY**
 - KINESLGY 302. Kines Study Abroad.
 - KINESLGY 421. Disord Vol Move.
 - KINESLGY 422. Motor Learning.

- KINESLGY 423. Sensorimot Dev.
- KINESLGY 424. Aging&Motor Perfmnc.
- KINESLGY 425. PA & Ped Disability.
- KINESLGY 427. Expertise.
- KINESLGY 435. Biomech Hum Locomot.
- KINESLGY 437. MotnCap Anim Biomech.
- KINESLGY 438. Musculoskeletal Imag.
- KINESLGY 441. Environ Exer Phys.
- KINESLGY 442. Exer Endocrinology.
- KINESLGY 443. Exrcse&Succ Aging.
- KINESLGY 444. 6-12 Methods in PE.
- KINESLGY 446. Soc Factors Phys Act.
- KINESLGY 448. CV Ex Phys.
- KINESLGY 450. Sem Adapted Phys Act.
- KINESLGY 471. Phys Activity Epid.
- KINESLGY 472. Adul Exer Prog.
- KINESLGY 474. Worksite Wellness.
- KINESLGY 533. Neuromechanics.

- **MOVESCI**

- 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 241. Ex Nutr Wt Cn.
- 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**
 - PHYSED 255. Hlth Ed Elem Teacher.
 - PHYSED 336. K-12 Rhythm&Dance.
 - PHYSED 444. 6-12 Methods in PE.
- **SM**
 - 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 Ethcs Sprt Ftns.
 - 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.

All School of Kinesiology courses not listed here are recorded as "not for credit" for LSA students.

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 for a course is not permitted after the first three weeks of a full term (first two weeks of a half-term). Grading pattern choices must be modified through the registration system. Courses elected after the third week of a term may not be elected on a non-graded basis unless the course is offered as a "mandatory non-graded" course. The only exceptions to this policy are short courses (*e.g.*, EARTH 101-115) which have started after the beginning of the term. In these cases, the grading pattern may not be changed after the second week of class. **The Academic Standards Board does not grant exceptions to this policy.**
4. The College holds students responsible for ensuring the accuracy and completeness of their class schedule.
5. 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:
 - Grades of A through C– are posted on a transcript as "P" (Pass); credit toward a degree is earned.
 - Grades of D through E are posted on a transcript as "F" (Fail); no degree credit is earned.
6. 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.
7. 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.
8. 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.
9. Classes at Camp Davis may not be elected on a Pass/Fail basis (effective Spring Term 2012).
10. Non-graded courses *may* be included in a distribution plan.
11. Pass/Fail courses *may not* be included in a plan for the major or in a minor.
12. 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.
13. 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.)
14. 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.
15. 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.
16. 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.

Experiential and Directed Reading / Independent Study

Effective for all students active in LSA Fall 2013 and thereafter (as well as all August 2013 degree candidates)

Approved by the LSA Faculty Winter 2015, made retroactive by the College Curriculum Committee to Fall 2014

The College distinguishes "Experiential" and "Independent" courses from its other course offerings.

Experiential courses (denoted EXPR in the [Undergraduate Course Catalog](#) and [LSA Course Guide](#)) involve academic work that may take place in a setting other than a university classroom, laboratory, library, or studio and in which the experience is directly related to an academic discipline. Most Experiential Credit is awarded through programs administered by departments and is recorded as credit in one of the departmental Experiential course numbers.

Independent courses may be:

1. Directed Reading/Independent Study courses (denoted INDS in the [Undergraduate Course Catalog](#) and [LSA Course Guide](#)) which are designated by title and not normally offered by classroom instruction;
2. courses normally offered through classroom instruction but occasionally taught on an independent study basis;
3. courses not specially designated as "Independent" and normally offered as classroom instruction but elected by special arrangement with the instructor.

The following limitations apply to Experiential and Directed Reading / Independent Study credit:

1. 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.
2. No more than 8 credits may be earned in a single term.
3. Experiential and Independent Study courses are excluded from area distribution plans.

60 Credits in One Department

For the Degree

Students electing an area, interdepartmental, or special concentration may count no more than 60 credits in any one department. For BGS students, no more than 60 credits may be elected in *all* SUBJECTs of a department.

For the Major

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.

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.

Transfer Credit

- Students who transfer from a two-year college are permitted 60 transfer credits (62 if an Associate's degree requiring 62 credits has been completed).
- [Prior to Spring 2014, LSA had the following policy: "Students who have completed 60 credits toward an LSA degree cannot earn degree credit for courses elected at a two-year college. Please note, in order for LSA to accept community college credits toward the 120-credit requirement after the student has already completed 60 credits, the student needs to be enrolled in the community college course as of Spring 2014 or later. LSA will not allow students who took the course prior to Spring 2014 and who had >60 credits at the time they took the community college course, to count toward their 120 credits regardless of when they send their transfer transcript to U-M. Because the Curriculum Committee explicitly decided to make the new policy effective this Spring 2014 and NOT make it retroactive, the Academic Standards Board will not entertain petitions for students who took community college credit prior to Spring 2014 and want it to count toward their 120-credit requirement. As always, community college credit taken prior to Spring 2014 can count toward other LSA general requirements regardless of how many credits the student has completed, including BS and LSA credit, as well as distribution.]
- Up to 60 credits may be transferred from the Flint and Dearborn campuses of the University of Michigan. Courses completed at these campuses are defined as [out-of-residence](#) credit (effective September 1, 1976), even though they carry Michigan Honor Points.
- Even if a course is transferable, credit is not allowed if the final grade earned is "C-" or lower. This includes all transferable credit earned outside the University of Michigan. (All credits and grades from the University of Michigan-Dearborn and -Flint campuses transfer.)
- 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.

Credit from Dual Enrollment Programs while in High School

Students interested in electing out-of-residence credit should consult the [Office of Undergraduate Admissions' website](#) about transfer equivalencies and an academic advisor about the appropriateness of the intended elections. Tables of [transfer equivalencies](#) are available on the College website.

Students who wish to take a course not listed on the equivalency tables may have that course evaluated by using a Transfer Credit Equivalency form (formerly the Out-of-Residence form). This form can be completed [online](#).

If credit elected out-of-residence is to be included in a plan for the major, approval should be obtained *in advance* from a department advisor.

The language requirement cannot be fulfilled by out-of-residence credit that is elected after the student has begun degree enrollment in LSA unless the appropriate language department has approved that plan in advance.

Seniors planning to elect the final portion of the senior year out of residence should contact the LSA Academic Auditors prior to leaving campus for information about procedures to avoid a delay of graduation.

LSA students who elect courses which duplicate Advanced Placement or transfer credit will receive degree credit and honor points (for graded courses) for the LSA election while credit for the duplicated Advanced Placement or transfer courses will be deducted. The only exceptions to this policy are courses transferred from another school or college on the Ann Arbor campus of the University of Michigan or from UM-Flint or UM-Dearborn. In these cases, courses elected in LSA which duplicate the transfer courses are posted on the academic record as "repetitions" or "not for credit" elections. The original course elections continue to appear on the academic record for degree credit, and grades earned in these courses continue to be computed in the grade point average.

Students electing courses in LSA which are prior to those in a course sequence for credits already awarded via transfer credit will have the transferred credits deducted, and the credits and honor points earned by the LSA elections will stand. This could mean losing credit for several courses while retaining credit for only one (for example, transfer credit for one or more terms of foreign language can be deducted because of subsequently completing the first term of that language at the University of Michigan).

Official transcript(s) of the completed transfer work should be sent to:

**The Office of Undergraduate Admissions
University of Michigan
300 Student Activities Building
515 East Jefferson Street
Ann Arbor, MI 48109-1316.**

Repetition and Out of Sequence

Repetition of Courses

Effective Spring 2015

If a course was taken in residence and a grade of A+ through C, P, CR, or S was earned, then repetition of this course results in no additional credit or honor points. The course and grade appear on the transcript with the notation "Not for Credit." A student repeating 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." Repetition of a course in which an E, F, or U grade was originally earned produces both credits toward a degree and honor points for courses elected on the graded pattern; there is no special transcript notation. In all such cases, the first election and grade earned remain on the transcript. The grades earned by repetition of courses are not averaged and posted as a single entry; but are posted as separate elections.

Previous Repetition of Courses Policy

If a course was taken in residence and a grade of A+ through C-, P, CR, or S was earned, then repetition of this course results in no additional credit or honor points. The course and grade appear on the transcript with the notation "Not for Credit." A student repeating a course in which D+ 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." Repetition of a course in which an E, F, or U grade was originally earned produces both credits toward a degree and honor points for courses elected on the graded pattern; there is no special transcript notation. In all such cases, the first election and grade earned remain on the transcript. The grades earned by repetition of courses are not averaged and posted as a single entry; but are posted as separate elections.

Out of Sequence Courses

Students should assume that once they take an in-residence course in a sequence (chemistry, mathematics, language, and others), 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.

Students who transfer in credit for a course in a sequence should assume they will lose credit for that course if they take a prior course in the sequence in residence at Ann Arbor. For example, a student taking MATH 115 in Ann Arbor after transferring credit for MATH 116 from another institution would lose the credit for the MATH 116 course.

Students should contact a LSA academic advisor if they have questions about whether or not a course is part of a sequence.

Special Kinds of Credit

As a part of your LSA degree you can use up to 60 credits as out-of-residence credit, which can take the form of test credit or transfer credit.

Test Credit (AP, CLEP, IB, A-Level, etc.)

College Level Examination Program (CLEP)

[College Level Examination Program](#) offers general and subject examinations that can be used to gain college credit. The assumption is that the exams measure learning or knowledge gained through experiences outside of the traditional classroom. The faculty at U-M will not accept any of the GENERAL EXAMS. It is possible for students to get CLEP credit for some 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.

Please note that the U-M is NOT a testing center for any CLEP exams.

A-Level and Other International Advanced Standing Credit Guidelines

Students who are pursuing or who have completed A-level exams will generally be awarded advanced standing ranging between 6 and 10 credit hours for certain advanced or principal level examinations completed with a grade of D or better. Three to five credits may be awarded for certain A/S exams with an acceptable grade.

Your transfer credit from another university or your A-Level credit should be evaluated by Undergraduate Admissions by the time you meet with your academic advisor at Orientation. Your advisor will explain how these courses might be used to meet prerequisites or in your distribution plan.

International advanced standing credit guidelines can be found on the [Undergraduate Admissions website](#).

International Baccalaureate (IB) Credit

[International Baccalaureate \(IB\) Credit](#)

To receive credit for International Baccalaureate (I.B.) examinations, an official Transcript of Examination Grades must be sent by the I.B. Office (New York, Geneva, or London) directly to the Office of Undergraduate Admissions. The Office of Undergraduate Admissions generally awards credit for I.B. higher level examinations passed with scores of 5 (or in some subjects, 4) or above. The University does not give credit for subsidiary level examinations.

IB credits are treated as equivalent to college course credit and may be used in a distribution plan.

[International Baccalaureate \(IB\) Credit Guidelines](#)

Advanced Placement (AP) Credits

AP Credit

Students may receive credit for Advanced Placement exams they complete in high school. Policies governing AP credits vary from department to department. In some cases, a score of 3 or better on the AP exam may be enough to receive credit. In other cases, a 4 or better is required on the exam. In still other cases students need to take an additional course or to meet with a department advisor in order to receive credit. As a result, it is essential that you discuss AP credits with your Academic Advisor at orientation.

If you have not had your AP scores sent to the U-M, go to the College Board AP Exam Grades web site: www.collegeboard.com/student/testing/ap/exgrd.html and click on "Grade Reporting Services," or call (888) 225-5427.

Your AP credit cannot count toward any LSA requirement other than the language requirement.

For a tentative list of AP credits, please refer to the University of Michigan Admissions web site.

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.

Some departments recognize certain subject area College Entrance Examination Board [College Level Examination Program \(CLEP\) examinations](#) and grant credit on the basis of specified performance on such examinations. All CLEP credit is evaluated as incoming transfer credit, and questions regarding CLEP credit should be addressed to the Office of Undergraduate Admissions. Only those CLEP examinations specifically accepted by academic departments at the University of Michigan may be used to certify credit by examination toward a degree. Credit will not be given for any CLEP exams taken after the student enrolls at U-M.

In addition to, or in place of, CLEP examinations, some academic departments have prepared examinations that are administered on campus. Questions regarding such departmental examinations should be directed to the respective department.

Credit earned by examination is [out-of-residence credit](#). It is posted on a student's transcript as credit earned toward the degree but without honor points and is identified by the notation "Credit by Examination." Failure to pass a departmental examination is not noted on a student's transcript or in a student's academic advising file.

International Advanced Standing Credit Guidelines

Retroactive Language Credits

LSA students may earn up to a maximum of 8 retroactive credits for prior academic work completed in French, German, Hebrew, Latin, Modern Greek, and Yiddish. To earn these credits students must complete an upper-level course into which they were placed with a grade of B or better.

Details and Restrictions

1. This policy is effective for all students whose first term of enrollment in LSA is Fall 1997 or after. Students who entered LSA before Fall 1997 are not eligible for retro-active language credit.
2. Students must successfully complete a designated course on the U-M—Ann Arbor campus with a B or better.
3. 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.
4. 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.
5. Taking a designated course Pass/Fail disqualifies students from receiving the retroactive credit.
6. 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.
7. Students may receive a maximum of 8 credits through AP/IB examination and/or retroactive credits. For guidelines on AP/IB credit, consult an LSA academic advisor or the relevant language department.
8. Retroactive language credits are available only to students who began learning French, German, Hebrew, Latin, Modern Greek, or Yiddish 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 in French, German, Hebrew, Latin, Modern Greek, and Yiddish

1. If your placement is 232 (202 for Hebrew and Modern Greek), enroll in 232 (202 for Hebrew and Modern Greek). If you have placed out of the language requirement, enroll in a designated upper-level language course in that language.

2. Fill out the [Application for Retroactive Credits](#). Return this form to your instructor as early as possible during the term.
3. Complete the course with a grade of B or better.
4. The department will forward it to the [LSA Academic Advising Center](#) or the [Honors Program](#) Office for authorization.

If you are awarded credits, approximately 2 months after the end of the term, it will appear on your transcript as “Credit By Exam.” If the term has ended and you have not applied for retroactive credits turn in your application at the LSA Academic Advising Center, 1255 Angell Hall.

Transfer Information & Residence 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.

Residency Policy

- It is your responsibility to review and understand the Residency 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.
 - Thirty of a student’s last 60 credits must be taken in residence (on the Ann Arbor campus, a U-M sponsored study abroad program, Michigan in Washington, or Semester in Detroit).
 - 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 of Literature, Science, and the Arts.

Transferring Credit to U-M Ann Arbor

- **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 http://www.ugadmiss.umich.edu/TCE/Public/CT_TCESearch.aspx.
 - 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 (all credits and grades from UM-Dearborn and UM-Flint transfer).
 - 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.
 - While LSA will accept some online courses, it is important to know that several departments prohibit any and all online courses from transferring to the U-M. These exceptions are noted on the [Transfer Credit Equivalency \(TCE\) site](#).
- **Credit Conversion:**
 - Courses taken at an 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:** College credits completed through Dual Enrollment while a student is in high school is subject to the [Dual Enrollment Policy](#).
- **[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, students must get permission from the Academic Standards Board (Honors students follow the procedures established by the Honors Office; Residential College students follow RC procedures).
 - To request permission, students must e-mail LSADualEnroll@umich.edu from their umich account and provide their full name, UMID, term of dual enrollment, the name of the other school, the course(s) they plan to take at the other institution, and their rationale for doing so. Students will receive a response by e-mail within 5 business days letting them know if their request is approved.
 - Even if the courses from the other school are transferable, the transfer credit will not be posted without this approval.
- **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 if electronically: oua.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 Credit posting:** Courses approved for transfer will be posted to a student's U-M transcript in one of the following ways:
 - **Equivalent Credit:** Courses granted equivalent credit have descriptions that closely match the descriptions of courses taught at UM–Ann Arbor. These courses will appear on the University of Michigan transcript with a U-M course number assigned (e.g., CHEM 130; ENGLISH 125).
 - **Departmental Credit:** Courses granted departmental credit have descriptions that do not match a specific course in a department at UM–Ann Arbor but are recognized as credit earned in a specific department. The course is assigned a three-digit departmental number (e.g., CHEM 101X; ENGLISH 202X). The first digit indicates the course level: 100, 200, 300, 400, etc. The third digit represents how many courses transferred in that department as departmental credit. The "X" denotes that departmental credit has been granted.
 - **Interdepartmental Credit:** Courses that cover a broad range of topics within a general area of study transfer as interdepartmental credit. These are courses that, because of the scope of their subject material, cannot be assigned to any individual academic department. The course is assigned to an interdepartmental category and is assigned a three-digit course number (e.g., INTERHUM 101X, INTERSS 202X, INTERNS 301X) The first digit indicates the course level: 100, 200, 300, or 400. The third digit represents how many courses transferred as that interdepartmental credit at the same level. The "X" denotes that interdepartmental credit has been granted.

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.
- The GPA of the last term before transfer and the cumulative GPA must both be above 2.0 in order for a student to be eligible to transfer into LSA. Students who wish to make a cross-campus transfer after the freshman year should discuss their plans with an academic advisor; the advisor will assist in selecting an appropriate academic program for the second term of the freshman 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.

Registration and Enrollment

- [Accuracy of Schedule](#)
- [Class Attendance](#)
- [Drop/Add](#)
- [Mini-Courses](#)
- [Withdrawal from the College](#)
- [Pass/Fail](#)
- [Full Time vs Part Time Status](#)
- [Class Standing](#)
- [Closed Course, Waitlist, and Override Information](#)
- [Final Exams](#)
- [Dual Enrollment](#)
 - [Dual Enrollment While in High School](#)
 - [Dual Enrollment with Another College or University](#)
- [Readmission](#)
- [Auditing Courses](#)

Accuracy of Schedule

Students are held responsible for the accuracy of their course elections and are encouraged to keep a printed copy of their schedule. Any changes made to the schedule must be made by the student through [Wolverine Access](#); the instructor cannot handle this process for the student.

Before the end of the third week, students should check the accuracy and completeness (*e.g.*, P/F, properly numbered sections) of their schedule.

- Students need to be sure that a course has been modified properly.

The accuracy of the Pass/Fail (P/F) designation is particularly important since, after open drop/add, a course cannot be changed from graded to P/F or vice versa.

- Students should ensure that they have no unexpected time conflicts.

Most students can access their schedules at anytime, anywhere (with a computer and Internet access). Students are encouraged to check Wolverine Access to confirm their schedule. A copy of the schedule can also be printed from wolverineaccess.umich.edu.

Class Attendance

Policy on Class Attendance

It is critical that students attend classes from the beginning of the term. Even though students may be registered officially for a course, departments may give away a student's place in a course if the student does not attend:

- the first meeting of biology, chemistry, and physics laboratories
- the first meeting of Sweetland Center for Writing courses
- either of the first two meetings of English courses
- the first two meetings of HISTORY 496 and 497
- any of the first two meetings of language courses in the Romance Languages department
- the first two meetings of seminars and lecture courses and the first two lectures and the first discussion/lab section of courses with discussion/lab sections in Communication Studies
- first two meetings of courses in other departments

At the same time, departments are not obligated to withdraw students officially from the course, even though the student has been informed that his/her place in a course has been taken away. **Students always are responsible for the accuracy of their own schedules.**

Students registered for a course that they do not intend to keep should drop it so that the space is available for other students, and faculty will have an accurate course roster. In most instances, students are not automatically dropped from a class roster for non-attendance. Classes dropped after the drop deadline will result in a "W" on a student's transcript whether or not the student has attended.

Absence from Class Due to Illness or Unanticipated Circumstances

Students are expected to attend class regularly and meet all requirements set by the instructor. When a student misses class because of an illness or unanticipated event, it is the student's responsibility to notify the instructor and provide an explanation. In the case of documented short-term absence due to illness or other unanticipated circumstance, instructors should provide reasonable effort to accommodate the student in a way that maintains the integrity of the class.

Requiring Documentation for missing assignments

If the student's absence due to illness causes the student to miss an assignment, an exam or any

other required work for the class affecting the course grade, the professor has the right to require additional documentation verifying the cause of absence. If the instructor excuses the absence, the options available to make up that missed work may be limited and will be determined by the instructor within the limits of the course.

Students are held to the expectations outlined in the *LSA Community Standards of Academic Integrity* when seeking any accommodation due to absence.

Students Representing the University in an Official Capacity Off-Campus

There may be instances when students must miss class due to their commitment to officially represent the University. These students may be involved in the performing arts, scientific or artistic endeavors, or intercollegiate athletics. Absence from classes while representing the University does not relieve students from responsibility for any part of the course missed during the period of 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.

For further information, see the [Office of the Provost's letter](#) to the University community or consult with your department's chair.

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. Students who expect to miss classes as a consequence of their religious observance shall be provided with a reasonable alternative opportunity to make-up missed academic work. It is the obligation of students to provide faculty with reasonable notice of the dates on which they will be absent. 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 respective class.

Drop/Add

The College expects students to finalize their academic schedules in the first three weeks of a term (first two weeks of a half-term). Later changes may be made according to the policies described below.

Courses dropped in the first three weeks of a term (first two weeks of a half-term) do not appear on the academic record. Thereafter, all courses officially dropped appear on the transcript with a

"W" notation indicating withdrawal. *For students in their first fall or winter term at the University of Michigan, the W(s) are expunged from the official transcript after the term is completed.* The "W" means that the student dropped a course after the third week of a Fall or Winter Term (second week of a half-term) and that the College accepted the reason(s) for the drop and gave its approval.

Failure to complete a course or to secure approval for a late drop of the course results in the transcript notation Unofficial Drop (ED) which is averaged into the term and cumulative grade point averages as a failing grade (E). Courses elected on a non-graded pattern do not affect the term or cumulative grade point averages.

Weeks one through three of a term (weeks one through two of a half-term):

Students may make drop/add changes without advisor approval when these changes result in an academic schedule of 18 credits or less during a term (9 credits in a half-term). Programs of more than 18 credits during a term (more than 9 credits during a half-term) require advisor approval as do all course changes made by Honors students. Adds of classes that are closed or require permission of instructor must be accompanied by an *electronic permission* from the department. **Students are responsible for any work assigned in the course from its beginning, regardless of the date of election. Therefore, it is important to talk with the course instructor about work assigned to date before adding a course in the second or third week.**

Since the tuition and fee assessment is not set until the end of this three-week period (two weeks in a half-term), a student dropping below 12 credits (six in a half-term) will be assessed a lower tuition charge.

Weeks four through nine of a term (three through five of a half-term):

The deadline for students to submit their Late Drop/Add request is 11:59 PM EST on the Late Drop/Add Deadline. W's are posted for courses dropped during this period, regardless of the reason for the drop.

Students requesting a late drop must:

1. Go to their Backpack/Registration page in Wolverine Access and select the DROP tab at the top of the screen.
2. Select the class, click "Drop," then click the green button "Request Late Drop."
3. Answer the questions and click "Submit Request" at the bottom.
4. Click "OK" on the confirmation page. Students will receive a confirmation email.

Students requesting a late add must:

1. Go to their Backpack/Registration page in Wolverine Access, select the class to add, click "Proceed to Step Two," then click "Finish Registering."
2. Click on the green button "Request Late Add."
3. Answer the questions and click "Submit Request" at the bottom.
4. Click "OK" on the confirmation page. Students will also receive a confirmation email.

All requests to add courses must be accompanied by an electronic permission entered by the department. Honors students follow the procedures established by the Honors Office; Residential College students follow RC procedures.

Students are encouraged to meet with an advisor to discuss the request and its impact on the student's program. In some instances, students may need an advisor's approval to drop the course.

Fees are not reduced even if a student drops below 12 credits (six in a half-term).

Week ten through the last day of classes of a term (after the end of week five through the last day of classes for a half-term):

The deadline to submit your request is 11:59 PM EST on the last day of class (please note that this is the last of class as defined by the Registrar, not the day you take your final exam). But we urge you to submit earlier in case you need assistance. W's are posted for courses dropped during this period, regardless of the reason for the drop. The only exception is students in their first full semester (i.e., Fall or Winter). In that case, if a student is dropping an individual class(es), the W(s) are expunged from the official transcript after the term is completed. However, if a first-term student is withdrawing from all classes, that would be considered a [term withdrawal](#) and would be noted on the student's official transcript. Please also note that classes that have already ended or have been graded cannot be dropped and that minicourses might have different deadlines (if so, that information is available in the [Course Guide](#)).

How to Request a Late Drop:

1. From your Backpack/Registration page in Wolverine Access, select the DROP tab at the top of the screen.
2. Select the class, click "Drop," then click the green button "Request Late Drop."
3. Answer the questions and click "Submit Request" at the bottom.
4. Click "OK" on the confirmation page. You will also receive a confirmation email.

How to Track the Progress of Your Late Drop Request:

Once you've completed these steps, your request to drop will be shared with those who need to approve it. The class is not officially dropped until all approvals are granted, but you can track the progress of your request on Wolverine Access. We recommend that you continue to attend class until your drop has been finalized. Watch your email: Under certain circumstances, you may need to meet with your instructor or an academic advisor to complete the process. When the drop is completed, you will receive an email confirmation from the Registrar.

After the last day of classes of a term (or half-term):

Students wanting to request a drop of a class from a previously completed term may do so by [petitioning](#) the Academic Standards Board. While the Board rarely grants retroactive drops of individual courses, students whose situation meets the following criteria should consult with a Board member (734.764.0332) about the possibility of the drop:

- Non-academic and unexpected events occurred after 9th week drop deadline of the term that impeded completion of course.

- Student must provide documentation of the event to verify the date of its occurrence and its severity.
- Student had been passing the class up to the occurrence of the event which had to occur after the late drop deadline.
- Instructor must describe the student's performance in the course including the grades and the dates of exams and assignments.
- Instructor must verify that the student did not take the final/finish the final project.
- The instructor must verify that the student did not ask for an incomplete.
- Student must explain why the event affected that course and not the others.

Students must meet with a Board member **before** they submit the [petition](#). Students should include a copy of the [petition](#) cover sheet with their written statement. Students may make requests for retroactive drops no later than **one year** past the end of the term of the course in question. Because this petition requires documentation and statements from the course instructors, it is best to write the petition sooner rather than later.

Describing the chronology (with exact dates) of the event(s) which affected a student's completion of the course(s) is crucial to the strength of your petition. The documentation provided should verify the occurrence and severity of the event(s). The Board is unlikely to grant a request for a retroactive drop without clear documentation and will not grant a request that does not meet the above criteria.

Mini-Courses

1. "W" and fee deadlines may differ for mini-courses. Check the [LSA Course Guide](#) for specific deadlines for individual courses
2. Students requesting a late drop of a mini-course must obtain a *Request for Late Drop of Mini-Courses Only* form and *Election Worksheet* from 1255 Angell Hall. Students who are adding a mini-course must obtain the *Request for Late Add* form and *Election Worksheet*. After the ninth week (four-and-a-half week of a half-term), students must obtain the *Exception to the Late Add Policy* form and *Election Worksheet* from 1255 Angell Hall. All requests to add mini-courses must be accompanied by an *electronic permission* entered by the department.

All requests to drop or add mini-courses submitted after the applicable free drop/add period are decided by the Academic Standards Board.

Withdrawal from the College

The "withdrew" notation will appear on the transcripts of students who withdraw from all of their classes after the third week of a full term (or after the second week of a half term), including those students in their first term at the University of Michigan.

Students who have early registered for a term or half-term but who subsequently decide not to return to the University should notify:

Office of the Registrar
LSA Suite 5000

500 S. State Street
Ann Arbor, MI 48109-1382
Fax: 734.763.9053
email: ro.registration.questions@umich.edu

Include name, UMID number, term(s) to disenroll, signature.

To avoid a disenrollment fee, notification of intention to disenroll must be received before the first day of classes.

Students who wish to withdraw once classes have begun should contact the Academic Advising Center, 1255 Angell Hall, 734.764.0332. Students who withdraw within the first three weeks of the term (two weeks for a half-term) are assessed a disenrollment fee plus a registration fee, but the registration will not appear on the student's record. Consult the Registrar's Office website for fee amounts.

Students who withdraw between the fourth and sixth week of a full term or in the third week of a half-term are assessed 50% tuition and the registration appears on the transcript with a "withdrew" notation. These dates are posted for each term on the following website: ro.umich.edu. **Full tuition is assessed after these dates.** After the sixth week of classes in a full term (third week in a half-term), students wishing to withdraw from the College must make an appointment with a member of the Academic Standards Board. After the late drop deadline (ninth week in a full term or four and a half in a half term), students who withdraw from the term will have a hold placed on their records. These students will be out of registration at least one full term (14 weeks) and must obtain permission from the Academic Standards Board to continue in the College.

For information about withdrawing from a class, see [Drop Policy](#).

Withdrawal by Not Registering

Students who withdraw from the College simply by not registering for the following term do not need to follow any formal "withdrawal" or "leave of absence" procedures. If they leave in good academic standing, such students are eligible for readmission at any time.

Disenroll

Before Classes Begin:

Prior to the first day of the term you may disenroll from the term. Contact the Office of the Registrar.

1. Visit a Student Service Site (2200 SAB or 2202 Pierpont Commons) make sure you have identification
2. E-mail the request to ro.registration.questions@umich.edu (please include full name, id number and term)
3. FAX your request to (734) 763-9053 (please include full name, ID number, term and signature)
4. Mail your request to the Registrar's Office, 2200 SAB., 515 E. Jefferson St, Ann Arbor, MI 48109-1316 (please include full name, ID number, term and signature)

Check the Office of the Registrar's Web site (ro.umich.edu/) for additional information

Term Withdrawals

Before Classes Begin:

Prior to the first day of the term you may disenroll from the term. Contact the Office of the Registrar.

1. Visit a Student Service Site (2200 SAB or 2202 Pierpont Commons) make sure you have identification
2. E-mail the request to ro.registration.questions@umich.edu (please include full name, id number and term)
3. FAX your request to (734) 763-9053 (please include full name, ID number, term and signature)
4. Mail your request to the Registrar's Office, 2200 SAB., 515 E. Jefferson St, Ann Arbor, MI 48109-1316 (please include full name, ID number, term and signature)

Check the [Office of the Registrar's Web site](#) for additional information.

Weeks One Through Six:

Students who wish to withdraw once classes begin must contact the Academic Advising Center and fill out the [Term Withdrawal](#) form. The form may be obtained from our web site. You can do any of the following:

1. Visit the Academic Advising Center (1255 Angell Hall) make sure you have identification
2. E-mail the Term Withdrawal form to academic.standards@umich.edu
3. FAX the Term Withdrawal form to (734) 764-2772
4. Mail the Term Withdrawal form to Academic Standards, 1255 Angell Hall, 435 S. State Street, Ann Arbor, MI 48109-1003.

Students who have early registered and subsequently withdraw after the term begins will be responsible for the registration and disenrollment fees regardless of their class attendance. To avoid a disenrollment fee, notification of intention to disenroll must be received **before** the first day of classes.

Students who withdraw within the first three weeks of the term (two weeks for a half-term) are assessed a \$50 disenrollment fee plus an \$80 registration fee (\$40 for a half-term), but the registration will not appear on the student's record. Students who withdraw between the fourth and sixth week of a full term or in the third week of a half-term are assessed 50% tuition and the registration appears on the transcript with W's and a withdrew notation. These dates are posted for each term on the following website: ro.umich.edu/termwd.html. Full tuition is assessed after these dates.

After Week Six:

After the sixth week of classes during a full term (third week in a half-term), students who intend to withdraw from the College must make an appointment with a member of the Academic Standards Board. Students who withdraw after the middle of a term may be required to obtain

permission from the Academic Standards Board before continuing in the College.

[Drop \(W\) / Official Withdrawal / Unofficial Withdrawal \(ED\)](#)

If a student withdraws officially from a course after the first three weeks of a full term (first two weeks of a half-term), the course is recorded on the transcript with a W notation; neither credits toward a degree program nor honor points are earned.

[Request for Term Withdrawal \(PDF\)](#)

Students who wish to withdraw once classes have begun should contact the Academic Advising Center. Students who withdraw within the first drop/add period are assessed disenrollment and registration fees, but the registration.

Retroactive term withdrawals are rarely granted. If you feel you have extraordinary circumstances that warrant an exception, make an appointment with a Board member by calling 734-764-0332. The Board member will review your situation and the petition guidelines with you. You must have this appointment before you can submit a petition. Your petition must include a completed [petition cover sheet](#), an instructor statement for each class, and documentation of the extenuating circumstances. You must make a case that you were unable to finish your classes and present a compelling reason why you were not able to request a withdrawal during the term. Non-attendance alone is not sufficient.

Note that there is a ONE-YEAR time limit for these requests. It's to your advantage to begin the petition process as soon as possible. Be sure to review the Pre-Submission checklist to learn about the possible implications of a retroactive withdrawal. See the [petition cover sheet](#) for additional details and instructions.

In most cases students will be notified of a decision within 7 to 10 business days of submitting the petition.

Pass/Fail

Students must take a minimum of 90 graded credits toward their degree. (Graded courses that have been transferred in from another school or college count toward the 90 graded credits. "P" courses from COVID grading terms WN20, FA20, WN21, SP21, SU21 also count toward the 90 graded credits.) Non-graded courses are allowed in line with the following policies.

Keep the following guidelines in mind:

- No class in your concentration or academic minor may be taken Pass/Fail.
- The 4th term of your language requirement may not be taken Pass/Fail.
- You have until the end of third week of a full term to decide if you want to modify a class Pass/Fail.
- You must earn at least a C- to receive a Pass for a class.

Other factors to consider:

- Instructors do not know nor notified when you are taking courses Pass/Fail unless you tell them.

- Pass/Fail grades do not calculate into your GPA.
- You should NOT take pre-professional requirements (pre-med or pre-business courses) as Pass/Fail.
- You should always take your coursework seriously.
- If in doubt about taking a class Pass/Fail, talk with your Advisor.

You make a course Pass/Fail by adding the election modifier "P/F" via [Wolverine Access](#). You may do this any time after you have registered for the course, up until the third-week Open Drop/Add deadline. You may remove the P/F modifier just as easily, also up until the third week deadline. After the third week, it is impossible to add or remove the P/F modifier.

Detailed Information about 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 for a course is not permitted after the first three weeks of a full term (first two weeks of a half-term).* Grading pattern choices must be modified through the registration system. Courses elected after the third week of a term may not be elected on a non-graded basis unless the course is offered as a "mandatory non-graded" course. The only exceptions to this policy are *short courses* (e.g., EARTH 101-115) which have started after the beginning of the term. In these cases, the grading pattern may not be changed after the second week of class. **The Academic Standards Board does not grant exceptions to this policy.**
4. *The College holds students responsible for ensuring the accuracy and completeness of their class schedule.*
5. 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:
 - Grades of A through C– are posted on a transcript as "P" (Pass); credit toward a degree is earned.
 - Grades of D through E are posted on a transcript as "F" (Fail); no degree credit is earned.
6. 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.
7. 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.
8. 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.

9. Classes at Camp Davis may not be elected on a Pass/Fail basis (effective Spring Term 2012).
10. Non-graded courses *may* be included in a distribution plan.
11. Pass/Fail courses *may not* be included in a plan for the major or in a minor.
12. 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.
13. 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.)
14. 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.
15. 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.
16. 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.

Full Time vs Part Time Status

In defining a normal academic load, a distinction must be made between what load students are permitted to elect and what is recommended.

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. To be considered full-time, an undergraduate must be registered in at least 12 credits in a full term or 6 credits in a half-term. Students may elect up to 18 credits in a full term and 9 credits in a half-term without special approval from an academic advisor. Generally, a program of four or five courses totaling 13 to 17 credits is considered typical, and first-year students are usually advised to elect four courses (14 to 16 credits).

Since the considerations for determining academic loads are often complex and personal, the College encourages students to discuss each term's elections with an academic advisor.

Class Standing

Class standing is determined by the number of credits earned toward a degree:

Class Standing	Credits
First Year:	Fewer than 25 credits
Sophomore:	25 through 54 credits
Junior:	55 through 84 credits

Senior:

85 credits or more

Closed Course, Waitlist, and Override Information

Closed class information is available from Wolverine Access.

Closed Classes

Each class is listed with a specific number of available spaces. This number is determined by the department offering the course. Classes that reach enrollment capacity during registration will be listed as “closed.” On occasion, classes reopen if a department raises the enrollment capacity of the course and/or adds additional sections.

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. Please refer to the section on “Overrides” located below and check with your department regarding the procedures for granting overrides.

Waitlists

Waitlist procedures exist to help deal fairly with students who wish to enroll in closed classes. The specific procedures vary from one department to the next and may vary for courses within a department. Waitlists may be administered through Wolverine Access, by departments, or by the individual instructors. Check with your department for procedures that apply to your course. You may indicate your course’s waitlist procedure in the [LSA Course Guide](#). Departments also may indicate a department-wide policy as a summary statement in the *LSA Course Guide*.

Registration waitlists that begin when a course section has filled with registered students serve a number of uses for faculty, departments, and our College. From the students’ perspective, however, there is one important fact to know about how waitlists work. All students should be aware that there is no general rule that when overrides are issued for a class they must be in the order that they appear on the waitlist. The waitlist exists to let the faculty member know who and how many students have waitlisted a particular course section. And while the student names do appear on the list in the chronological order in which students added themselves to the list, no individual faculty member or department is obligated to issue permission numbers by this numerical ordering. It may be felt that other criteria weigh more heavily. For example, class standing (senior, junior, *etc.*) or whether or not the student is a major in the department may be considered more important than what number a student is on the waitlist.

Some courses are of special importance to students – for instance, declared majors or potential majors who need the course for the degree or as a prerequisite to additional work – and faculty may want to accommodate such students. There is often some attrition in the enrollment of a class; it is difficult to predict how much loss of enrollment a class might experience and the impact that overrides might have on the final numbers. Often students will attend a class, even

though not officially registered, in the hope that natural attrition will free a space for them. The history of enrollment for the class and the presence of vacancies in other sections of the same class may influence a decision as to whether to issue overrides to students on the waitlist.

Overrides

Overrides allow all teaching departments to control entrance into those classes that have requirement groups, are by consent of instructor or department only, or are closed. If a class is “closed” in Wolverine Access or if entry into the class requires permission of instructor, a faculty member may provide an electronic override to allow the election. By giving students permission to enter a closed class or restricted courses with an override, those students can then enroll through Wolverine Access.

Students should contact either the instructor or the department involved for information on obtaining an override. Overrides are NOT available from the Newnan LSA Academic Advising Center or the Academic Standards Board.

Final Exams

The [Final Exam Schedule](#) is published in the *University Schedule of Classes*. The *Schedule of Classes* is available at <http://www.ro.umich.edu/schedule/>.

The *Faculty Code* states:

"The official examination schedule should be followed; and the instructor may not depart from the schedule."

LSA faculty are expected to follow this policy. Final exams may not be scheduled during regular instructional class time or during Study Days—including on the last day of class—regardless of whether they are called "final exams." The *Faculty Code* allows for the possibility that an individual student might need to take the final earlier or later than the designated time, and such is possible by mutual agreement of instructor and student; but there may not be a class vote, or similar action, to cancel the regularly scheduled time of the exam and substitute another time.

If an instructor wishes to request an official change in the time for your final exam, he/she must contact the Dean's and Registrar's Offices, 1210 LSA Building, 764-6280.

If an instructor, with permission of the Registrar and Dean, changes the published assigned time of the exam, any student who wishes to take the exam at the assigned time must be allowed to do so.

If any student is assigned four examinations during the same day, the student can request a letter from the University Registrar seeking rearrangement of one exam.

[University of Michigan's Final Exam Policy](#)

Dual Enrollment

LSA allows transferable dual enrollment credits to count toward LSA requirements and degrees. Dual enrollment involves a non-University of Michigan college or university or a high school. For information about special degree programs that are offered by the joint cooperation of LSA and other colleges or schools within the University, please refer to the [LSA joint degrees policy](#).

Dual Enrollment While in High School

The State of Michigan has mandated that all public universities must award credit for transferable college-level courses taken by high school students. U-M will not consider whether dual enrollment credits earned by an incoming student were utilized towards his or her high school graduation requirements when making a determination as to whether those credits may be used by the student toward completion of a university degree or certificate program.

LSA allows transferable dual enrollment credits to count toward LSA requirements and degrees. Admissions will review dual enrollment credit for [transfer credit](#) and they will post accepted courses to a student's U-M transcript. Students should work with their LSA academic advisor to determine how transfer credits work toward their [degree requirements](#).

Dual Enrollment Policy (Effective Spring Summer 2013)

The State of Michigan mandated that all public universities, effective January 3, 2013, must award credit for college-level courses taken by high school students. Accordingly, President Coleman signed the following statement which commits LSA to change its policy on dual enrollment credits:

The University certifies that, by January 3, 2013, it will not consider whether dual enrollment credits earned by an incoming student were utilized towards his or her high school graduation requirements when making a determination as to whether those credits may be used by the student toward completion of a university degree or certificate program. (See Lester Mont's January 10 memo to All University Admissions Offices.)

Previously, LSA restricted the granting of transfer credit for incoming students when dual enrollment credits were used to meet high school graduation requirements and/or our own internal admissions requirements. Under our new policy we will lift these specific restrictions and allow transferable dual enrollment credits to count toward LSA degree requirements.

While the State of Michigan mandated broad changes to how public universities treat dual enrollment credit, public universities retain the ability to determine the transferability of dual enrollment courses to their respective institutions. The Deans of all the Schools and Colleges at the University of Michigan reaffirmed this position with the following statement, which re-asserts the right of faculty to determine which courses are suitable for transfer to the respective

Schools and Colleges at the University of Michigan.:

High school students who dually enroll for courses at accredited institutions of higher education may receive credit for work taken at these institutions for courses that have been recognized for transfer to the University of Michigan in accordance with the University's transfer credit policy. Acceptance of courses and credits deemed suitable for transfer to the University of Michigan is determined by faculty in the department, school, or college responsible for instruction in the subject area. Among factors influencing the determination of acceptability are accreditation status, comparable academic quality, and the relationship of the course to other course offerings in the primary administrative unit and other academic units at the University of Michigan, and the basis for student performance evaluation in the course. Additionally, the Office of Undergraduate Admissions will continue to determine which students are eligible for admission to U-M based on the overall strength and quality of the student's academic preparedness. In other words, the Office of Undergraduate Admissions will admit those individuals that present the strongest range of credentials and experiences that are consistent with those of our incoming student body.

Overall, while our new position on dual enrollment will allow incoming students to potentially count more of their dual enrollment credits towards LSA degree requirements, we will retain the ability to assess whether individual courses meet our standards for being awarded transfer credit in the first place. For instance, we will continue to designate courses taught to high school students in a high school setting as non-transferable. That is, as with all potential transfer credit, we must determine that individual courses fully meet the standards and expectation, as set by LSA faculty, for awarding transfer credit to college courses taken while in high school.

LSA Office of the Assistant Dean for Undergraduate Education

Executive Director of the Newnan LSA Academic Advising Center April 2013

Dual Enrollment FAQ

[Does this policy apply to students who started at the University of Michigan prior to January 2013?](#)

No, this policy is not retroactive. Instead, it applies only to those students who matriculated to the University of Michigan in Spring 2013 or later. Students who do a cross campus transfer to LSA in Spring 2013 or later will be held to the date that they first enrolled at the University of Michigan in determining if Dual Enrollment credits will be transferred.

[Will U-M give college credit for dual enrollment courses taken during high school?](#)

Yes. High school students who dually enroll for courses at accredited institutions of higher education may receive credit for work taken at these institutions for courses that have been recognized for transfer to the University of Michigan in accordance with the University's transfer credit policy.

[How will I know if the college course\(s\) will transfer to U-M?](#)

See the course equivalencies database website:

http://www.ugadmiss.umich.edu/TCE/Public/CT_TCESearch.aspx. This website provides information regarding how courses from other institutions will be posted to the U-M transcript.

How will online college courses be considered for transfer to U-M?

While LSA will accept some online courses, it is important to know that several departments, for example Mathematics, prohibit any and all online courses from transferring to the U-M. Other departments place significant restrictions on how online courses can be used to meet departmental requirements.

Is there a limit to the number of college credits that will transfer to U-M?

Yes. LSA will allow a maximum of 60 credits to transfer.

Will I receive credit if I took a course pass/fail?

It is preferred that transfer courses be taken for a letter grade. You must earn a grade of “C” or higher for a course to be posted to your U-M transcript. Most universities/colleges provide an explanation of the “pass” grade for their institutions. If the institution indicates that the pass grade is a “C” or higher for the transferable course, credit may be awarded.

Can I use transfer credits to count toward some degree requirements in LSA?

Many degree requirements can be fulfilled with transfer credit. At Orientation, your academic advisor will help you understand how transfer credit applies to specific LSA degree requirements.

Can I use transfer credits to count toward my major or minor?

Each department in LSA sets its own guidelines for the use of transfer credits towards specific requirements in that program; there are no general rules that govern the process. If you are transferring credits from another institution and you want any of those credits to count toward the requirements of your major, these credits must be approved by your major’s department academic advisor. Transfer courses that are in the department of your major, but are not accepted by your department advisor, may be used as elective credit.

Will my college courses be evaluated in the admissions review process?

Yes. In order for any student to be considered for admission to LSA, all college transcripts with dual enrollment courses must be submitted. Your admissibility to the University will be based, in part, on the quality of your dual enrollment coursework. Failure to disclose any college-level courses taken prior to matriculating at U-M is considered a form of misrepresentation and may result in revocation of your admission to the University.

Can I pick and choose which transfer courses I want posted to my U-M transcript?

No. In presenting dual enrollment credits for transfer to the University of Michigan, all of these credits become a permanent part of your U-M record; LSA does not allow students to selectively

remove transfer courses from the U-M transcript.

[Where do I send my official college transcript for potential transfer credit?](#)

If you took "college" level courses prior to completing your high school or secondary-level program, you should have a transcript sent directly to the address below by mid-June prior to the start of your first year at the University of Michigan:

Office of Undergraduate Admissions

University of Michigan

300 Student Activities Building

515 East Jefferson Ann Arbor, MI 48109-1316

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, students must get permission from their College. Honors and Residential College students must follow the procedures established by that Program and Residential College.

Students interested in dual enrollment should send an e-mail to LSADualEnroll@umich.edu from their umich account with the following information:

Full name

UMID

Term of dual enrollment

Name of the Other School you will be attending

Course(s) you will take at the other institution

Rationale for dual enrollment

Students will get a response by e-mail within 5 business days letting them know if their request is approved. Even if the courses from the other school are transferrable, the **transfer credit will not be posted without this approval.**

Readmission

[Readmission to the College](#)

The College of Literature, Science, and the Arts allows readmission of a student previously enrolled if the student left in good academic standing. Students who have been away for less than two years should contact the Office of the Registrar, 500 South State Street, to obtain an

appointment for registration. Students who have been absent from the College for more than two full years (24 months) must apply for readmission by submitting an [Application for Reactivation](#) which is available from the Office of Academic Advising, 1255 Angell Hall. Students also must meet with an [Academic Standards Board](#) member. 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.

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.

Students suspended from the College for reasons of unsatisfactory academic performance must obtain permission to register from the Academic Standards Board. In these cases, the readmission decision rests entirely with the Academic Standards Board. Such students must make an appointment with a member of the Academic Standards Board *at least eight weeks prior* to the desired readmission term to discuss readmission to the College. Petitions requesting reinstatement should be received by the Academic Standards Board *at least six weeks prior* to the beginning of the term in question.

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 [BGS degree](#), and students whose first degree is the BGS 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 in the new field of the major. Graduates of another Ann Arbor unit must earn at least 30 credits while registered in 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.

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. The student 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.

[Reinstatement after Suspension](#)

Students may be suspended from the College

1. for incurring a significant honor point deficit in a single term or half-term,
2. for failure to make satisfactory progress toward a degree, or
3. for any other reason deemed sufficient under the policies of the LS&A Academic Standards Board.

Because first year students can experience problems adjusting to college, the Academic Standards Board maintains more liberal policies for them than for other students. As a general rule, unless there is a significant honor point deficit the first term, freshmen are placed on probation and are permitted a second term of enrollment to improve their level of academic performance. Similarly, transfer students are given special consideration unless the first term's work in residence shows marked inability to meet the academic standards of the College.

However, there is no automatic, one-term probation period before a student may be suspended from the College.

Readmission/Reactivation

Reactivation

A student who has been out of registration for over two years must meet with a Board member and complete an [Application for Reactivation](#) available from the Board member.

Students who left in good academic standing (i.e., were not suspended) will receive an e-mail notifying them that the Board staff has reactivated their record a few days after they have submitted the reactivation application. Once they receive this message, then they can contact the Office of the Registrar to obtain a registration time. The Board member with whom they meet will provide information necessary for registration.

Students who did not leave in good academic standing (were suspended) and who have been out of registration for more than two years also must complete a reactivation application. The Board member with whom they meet for their required readmit interview will provide them with this form.

Readmission/Reinstatement

The Board places on academic suspension students whose academic performance is endangering the likelihood of completing a degree program in the College. Suspended students must be out of registration at UM for the 14 weeks of a Fall or Winter semester; students suspended after a Winter semester must be out of registration at least until the next Winter semester. The Board expects most suspended students to complete successfully at least a semester of coursework at another college or university to demonstrate their readiness to resume work at UM. If the student identifies health, mental health, financial or family issues as having largely caused his/her academic difficulties, then the student must address these issues and produce documentation (if appropriate) verifying the issues are manageable or no longer present. A few weeks after receiving the suspension notification, the student can meet with a Board member to determine the most effective strategy for readmission. Students apply for readmission by writing a petition (letter) to the Board. Prior to writing the petition, students must meet with a Board member at least eight weeks prior to the term they would like to return. At this meeting,

the Board member will give the student guidelines for writing the readmission petition, list any documentation the student should include with the petition, and set a deadline for submitting the petition. The student can contact the Board member during the petitioning process if he/she has any questions or concerns about readmission. The Board will review the student's petition and one of the members will e-mail a decision to the student within a week to ten days.

Timeline for Reactivation

Specific deadlines vary with the term

See ro.umich.edu/calendar

Students should contact the Newnan Advising Center to schedule an appointment with an Academic Standards Board member. At the appointment, the student will be given the Application for Reactivation to fill out. The Board member will then sign the application. Students who are not in Ann Arbor may schedule a phone appointment. International students who are out of the country do not need to schedule an appointment until they return to campus; International students will be given an electronic form to complete and then submit by email only if form can be signed or by fax.

Reactivation is automatic if the student left in good standing. Once the form has been processed and the student has been reactivated, the student will receive an email along with an Information Sheet.

Reactivation can be done prior to the first day of classes for the term in which the student wishes to enroll. International students should request reactivation *at least six weeks prior* to the term for which they wish reactivation to allow time for the International Center to complete an I-20 Form.

Please note that applications for Spring, Summer or Fall Terms cannot be processed prior to February and applications for Winter Term cannot be processed before October.

Auditing Courses

Students are expected to elect courses for credit. Occasionally, however, a student may wish to attend a course but not elect it for credit. This arrangement can take the form of an *official audit* (sometimes called *Visitor status*).

An *official audit* obligates a student to attend classes regularly and complete course requirements (*e.g.*, papers, laboratory assignments, tests, and the final examination). Regular tuition fees apply, and the course appears on the transcript with the grade *VI (Audit)*; and no degree credit is earned. To arrange an official audit, a student must submit a [Request for Audit Status form](#) to the Academic Standards Board, 1255 Angell Hall. A request to officially audit a course must be approved by the end of the third week of a full term or second week of a half-term. Students who do not fulfill course requirements earn the grade ED to indicate that the course was unofficially dropped. In these cases, the term and cumulative grade point averages remain unaffected.

Your Academic Record

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 Assistant to the Academic Standards Board (1255 Angell Hall).

LSA academic records are maintained by the Records and Enrollment Department in the Registrar's Office (1210 LSA Building).

Student Records Policy

All LSA students have an academic advising file containing admissions material, test scores, unofficial copies of academic records, memoranda, correspondence, and notes which academic advisors or members of the [Academic Standards Board](#) have made about their conversations with a student. Information of a sensitive nature may be removed from the academic advising file at the discretion of a member of the Academic Standards Board or at the request of the student and placed in a confidential Dean's file. Dean's files also are created for those students charged with some form of academic misconduct, and for other serious violations of student conduct policies.

Dean's files are maintained in confidence by the Assistant Dean in the Office of Student Academic Affairs.

Students have the right to examine most materials in their own academic files. Students who wish to review their advising files may do so by scheduling an appointment with an academic advisor. Access to Dean's files may be obtained by contacting the [Office of the Assistant Dean](#). Students may request duplicate copies of most information in their academic files at cost. They also may add clarifying notes and other materials to their advising files during regular business hours. Requests for deletions and additions of material from an advising file or a Dean's file should be addressed in writing to the Office of the Assistant Dean.

The [Family Educational Rights and Privacy Act of 1974](#) (FERPA) governs both the release of, and access to, student records in the College and University. Occasionally, instructors may be contacted by parents or others to inquire about a particular student's academic record. It is important to recognize that the release of student information to a third party, including parents, requires the written permission of the respective student. Students may use the online [FERPA release form](#) to authorize release of their advising record and related academic information to third parties. If you have questions about access to student records, contact the Office of the Assistant Dean.

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; and
- 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.

Access to individual student LSA advising files is restricted to official university academic

advisors, members of the LSA Academic Standards Board, and clerical staff who assist in carrying out official advising or Academic Standards Board functions.

One exception which permits disclosure without consent is disclosure to school officials with legitimate educational interests. A school official is a person employed by the College or University in an administrative, supervisory, academic or research, or support staff position; or a student serving on an official committee, such as a judicial committee or assisting another school official in performing his or her tasks. A school official has a legitimate educational interest if the official needs to review an education record in order to fulfill his or her professional responsibility.

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 Assistant to the Academic Standards Board (1255 Angell Hall).

LSA academic records are maintained by the Records and Enrollment Department in the Registrar's Office (1210 LSA 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 Uniquename 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, 1210 LSA Building Street or B430 Pierpont Commons.

Mailed or faxed requests may be sent/faxed to:

Transcript and Certification Office
University of Michigan
1210 LSA Building
500 South State Street
Ann Arbor 48109-1382
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: 1207 LSA Building or B430 Pierpont Commons. 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)	credit, no honor points
F (failed)	no credit, no honor points

Credit/No Credit

CR (credit)	credit, no honor points
NC (no credit)	no credit, no honor points

Satisfactory/Unsatisfactory

S (satisfactory)	credit, no honor points
U (unsatisfactory)	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
-------------------------	----------------------------

ED (dropped unofficially) no credit, no honor points

(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

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

Official Audit (VI)

VI (Audit) no credit, no honor points

Miscellaneous Notations (NR, ##)

NR (no report) no credit, no honor points

NG (no grade reported) no credit, no honor points

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)

The instructor should report an NR if a student stops attending before the end of the term, but has not dropped the class or requested an Incomplete. If the NR is not resolved by the fourth week of the next fall or winter term in residence, the NR grade in a graded election is lapsed to an ED.*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.

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. 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. 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. A change in grading pattern for a course is not permitted after the first three weeks of a full term (first two weeks of a half-term). Grading pattern choices must be modified through the registration system. Courses elected after the third week of a term may not be elected on a non-graded basis unless the course is offered as a "mandatory non-graded" course. The only exceptions to this policy are short courses (e.g., EARTH 101-115) which have started after the beginning of the term. In these cases, the grading pattern may not be changed after the second week of class. The Academic Standards Board does not grant exceptions to this policy. The College holds students responsible for ensuring the accuracy and completeness of their class

schedule. 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: Grades of A through C– are posted on a transcript as "P" (Pass); credit toward a degree is earned. Grades of D through E are posted on a transcript as "F" (Fail); no degree credit is earned. 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. 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. 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. Classes at Camp Davis may not be elected on a Pass/Fail basis (effective Spring Term 2012). Non-graded courses may be included in a distribution plan. Pass/Fail courses may not be included in a plan for the major or in a minor. 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. 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.) 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. 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. 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.

Students are expected to elect courses for credit. Occasionally, however, a student may wish to attend a course but not elect it for credit. This arrangement can take the form of an official audit (sometimes called Visitor status). An official audit obligates a student to attend classes regularly and complete course requirements (e.g., papers, laboratory assignments, tests, and the final examination). Regular tuition fees apply, and the course appears on the transcript with the grade VI (Audit); and no degree credit is earned. To arrange an official audit, a student must submit a Request for Audit Status form to the Academic Standards Board, 1255 Angell Hall. A request to officially audit a course must be approved by the end of the third week of a full term or second week of a half-term. Students who do not fulfill course requirements earn the grade ED to indicate that the course was unofficially dropped. In these cases, the term and cumulative grade point averages remain unaffected.

Grading Issues

Select an option below to learn more about:

- [Grade Review](#)
- [Transcripts and Notations](#)
- [Incompletes](#)
- [Y Grades](#)
- [Pass/Fail](#)
- [Repetition and Out-of-Sequence](#)
- [Grade Appeals](#)

Pass-Fail

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 for a course is not permitted after the first three weeks of a full term (first two weeks of a half-term).* Grading pattern choices must be modified through the registration system. Courses elected after the third week of a term may not be elected on a non-graded basis unless the course is offered as a "mandatory non-graded" course. The only exceptions to this policy are *short courses* (e.g., EARTH 101-115) which have started after the beginning of the term. In these cases, the grading pattern may not be changed after the second week of class. **The Academic Standards Board does not grant exceptions to this policy.**
4. *The College holds students responsible for ensuring the accuracy and completeness of their class schedule.*
5. 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:
 - Grades of A through C– are posted on a transcript as "P" (Pass); credit toward a degree is earned.
 - Grades of D through E are posted on a transcript as "F" (Fail); no degree credit is earned.
6. 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.
7. 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.

8. 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.
9. Classes at Camp Davis may not be elected on a Pass/Fail basis (effective Spring Term 2012).
10. Non-graded courses *may* be included in a distribution plan.
11. Pass/Fail courses *may not* be included in a plan for the major or in a minor.
12. 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.
13. 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.)
14. 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.
15. 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.
16. 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 by the symbol "I") may be reported only if the amount of unfinished work is small, the work is unfinished for reasons acceptable to the instructor, and the student's standing in the course is at least "C-." An "I" grade not finished by the incomplete deadline or an approved extended deadline lapses to "ILE."

Students who find themselves unable to finish all of the assignments for a course before the end of the term may request a grade of Incomplete from the instructor. The instructor is under no obligation to grant this request, and can only grant it if:

- the student has already finished about 70% of the work;
- the student's current grade in the course is at least "C-"

If the instructor agrees to give an incomplete, the student will have up to the end of the 4th week of the next Fall or Winter term of registration to complete the work. If the instructor has not submitted a grade for the student by 10 days past the deadline, the incomplete will lapse to an "ILE."

The "I" grade itself does not affect the term or cumulative grade point averages. Students may finish the work for incompletes while not in residence even if the Board has dismissed them from the College for reasons of unsatisfactory academic performance.

If the student does complete the work within the allowed period, the Registrar will post the final grade on the transcript; however, the "I" will remain next to the grade on the transcript. Students who are not able to finish the work within the allowed period may apply to the Academic Standards Board for an extension of the incomplete deadline. In order to qualify for an extension, the student must present documented unexpected circumstances that prevented completion of the course within the allotted time period. Unfinished "I" grades will lapse to "ILE" grades beyond the regular or extended incomplete deadline. In such cases, the student will earn no degree credit and lower his/her term and overall GPAs. Unfinished courses elected on a non-graded pattern (Pass/Fail, Credit/No Credit) lapse to "Fail or "No Credit" but do not affect the term or cumulative grade point averages.

[Incomplete, Time Extension for \(PDF\)](#)

Use this form if you have an incomplete and need an extension beyond the deadline.

Frequently Asked Question About Incompletes

Does the 'I' grade on my transcript go away when I finish the work?

No. The 'I' remains for posterity, alongside the new grade. The new grade counts normally towards your GPA, however.

I want to sit in on the class during the following term. Can my instructor extend the allotted time to finish the incomplete work beyond 4 weeks?

No. Your instructor does not have the authority to do this. Only the Academic Standards Board can approve extensions of the deadline. You must file a petition in 1255 Angell Hall. Since an 'I' grade is not intended to allow you to "retake" the course, such petitions are usually denied.

My professor refuses to give me an Incomplete because I'm failing the course up to now. Can she do that?

Yes. In fact, the LSA grading guidelines specifically state that an 'I' is only allowed if you have already completed "most" of the work in the course with a grade of 'C-' or better.

Does an 'I' on my transcript look really bad if I am applying to graduate schools?

One or even two completed 'I's probably won't make much of a difference. If you have a large number, however, your record does start to look troublesome. Graduate schools, like employers, like to know that you can meet deadlines, and finish what you take on in a timely manner.

Y Grades

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 *specialty 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.

Grade Review

At the end of each term and half-term, the [Academic Standards Board](#) reviews the academic records of all LSA students showing evidence of academic difficulty.

The Residential College has a separate Board on Academic Standing (BOAS) that makes decisions regarding [academic discipline for RC students](#); the [Honors Academic Board](#) makes decisions for Honors students.

Action Pending

Action Pending is assigned when a student's academic record for a term is incomplete (*i.e.*, not all grades are submitted or the student has an "i") and the student is in danger of completing the term with less than a 2.0 grade point average. The transcript is then reviewed again when final grades have been reported or after incomplete grades have lapsed. This review normally takes place during the fifth week of a student's next fall or winter term in residence. If all incomplete work has not been finished, or if it has been finished with grades that result in a grade point average below a 2.0, a student will be placed on *Probation*.

Special Action Pending is assigned when a student has an unusually large number of incomplete grades. These students are required to meet with an Academic Standards Board member within the deadline specified in the notification letter to discuss their plans to complete the work. **A student who fails to make this appointment could be disenrolled from the term.**

Probation Actions

Probation is assigned to all students in the College whose *term* grade point average falls below 2.0 but whose deficit is not severe enough to justify suspension. Students are placed on probation whenever the term grade point average falls below a 2.0 during a term or half-term, regardless of the number of courses or credits elected or whether the cumulative grade point average remains above a 2.0.

Probation Continued is assigned when a student on probation has earned a term grade point average above a 2.0 but the cumulative grade point average of 2.0 has not yet been achieved. *Probation Continued* might also be assigned if a probationary student has a term average of exactly 2.0 or slightly below 2.0, so long as members of the Academic Standards Board feel that the student is making minimum progress toward fulfilling degree and program requirements.

Special Probation is assigned to students whose record leaves some question about whether immediate continuation in the College is advisable. These students are required to meet with an

Academic Standards Board member within the deadline specified in the notification letter to plan appropriate course electives. **A student who fails to make this appointment will be disenrolled from the term.**

The conditions for a student on *Probation* or *Probation Continued* are that all courses in the ensuing term will be completed by the end of the term with a *term* grade point average greater than 2.0. Specific conditions of probation are stated in a letter notifying the student of the action taken by the College.

All students placed on probation are required to discuss their academic situation with an academic advisor or a member of the Academic Standards Board and to take advantage of College and University resources to assist them in improving their level of academic performance.

Raised Probation officially confirms that a student has completed a probationary term with better than a 2.0 grade point average and that a student's cumulative grade point average is at least a 2.0.

Suspension

The Board can suspend students after any term of enrollment, including the first; there is no automatic, one-term probation period before the Board will suspend a student from the College. A term GPA close to or equal to 0.00 will cause the Board to place a suspend action on a student record, as will significant failure to achieve a GPA of at least 2.0 in the student's declared major. Thus, students may find themselves suspended after one term of very poor academic performance. Academic suspension is not punitive; rather, it aims to prevent further damage to the student's GPA. Students whom the Board suspends must remain out of registration for at least one Fall or Winter semester and then request readmission through a written petition that they must submit at least 6 weeks prior to the term they hope to return.

The Board carefully reviews students' academic records at the end of each semester in order to determine the appropriate academic action to take on them. Records with poor or failing grades indicate that serious obstacles are preventing academic success, obstacles that students need to address before continuing their studies. Suspension will allow students the time to confront these obstacles so that they may return ready to perform successfully and ultimately to graduate. Board members are available to suspended students to help them plan their next best steps after learning about their suspension.

Reinstatement

Suspended students are expected to be out of registration for at least one full fall or winter term following their suspension. Reinstatement is not automatic after that time; students must petition to be readmitted. When they feel they are ready to return, students should make an appointment with a member of the Academic Standards Board by calling (734) 764-0332. This meeting or phone appointment should take place at least eight weeks before the start of the desired return term. The purpose of this appointment is to discuss the factors that led to the suspension, talk about what the student has been doing while away, and consider academic plans. During this

conversation, the Board member will provide guidance about writing the reinstatement petition. Petitions are due at least six weeks before the start of the desired return term and should include the following:

- a thoughtful analysis of what went wrong before
- evidence that past problems have been resolved or eliminated (or a strategy for managing ongoing issues)
- a description of how the student has used the time away
- a viable academic plan for the student's remaining terms.

Students are strongly encouraged to complete academic work elsewhere during the suspension period; strong grades in such classes will greatly strengthen one's case for readmission. These students must consult with an LSA academic advisor or Board member *before* taking classes elsewhere, to make sure the courses are appropriate and transferable.

Relevant supporting documentation should be attached to all reinstatement petitions. Some examples of appropriate documentation are: statements from health care providers if academics were impacted by physical or mental health issues, transcript and/or instructor statements if taking classes elsewhere, letter from employer if working during suspension period, *etc.*

After reviewing the reinstatement petition, the Academic Standards Board will make a decision and will notify the student by e-mail.

Reinstatement after Suspension

Students may be suspended from the College

1. for incurring a significant honor point deficit in a single term or half-term,
2. for failure to make satisfactory progress toward a degree, or
3. for any other reason deemed sufficient under the policies of the LSA Academic Standards Board.

Because first year students can experience problems adjusting to college, the Academic Standards Board maintains more liberal policies for them than for other students. As a general rule, unless there is a significant honor point deficit the first term, freshmen are placed on probation and are permitted a second term of enrollment to improve their level of academic performance.

Similarly, transfer students are given special consideration unless the first term's work in residence shows marked inability to meet the academic standards of the College. However, there is no automatic, one-term probation period before a student may be suspended from the College.

Dismissal

Students may be permanently dismissed from the College if the Academic Standards Board determines that continuation in the College is unlikely to lead to a degree.

Grade Grievance

Grade Change Policy

"A grade change may be submitted by your instructor to correct an error on a Supplementary Grade Report which the instructor obtains from their department office. The request must be accompanied by a formal explanation by the faculty member in charge of the course outlining the circumstances surrounding the original error and justifying the grade change." (Faculty Code B5.07)

The Academic Standards Board cannot approve any Supplementary Grade Report for a grade change when "extra work is submitted," "student rewrote a paper," "student retook the final," or another special arrangement unless the instructor is able to provide the Board with a statement that the arrangement giving this one student the opportunity to raise his/her grade was an arrangement available to and known by every student 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 and "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. Even if the course has lapsed to E the grade can still be approved for posting if the work completed by the student was within the incomplete deadline date or the extended deadline date.

Grade Grievance Procedures

"The Office of Student Academic Affairs (formerly the LSA Administrative Board) shall insure that each department has an efficient procedure for dealing with student complaints regarding alleged unfair or improper grading, and shall insure that these procedures are followed in individual cases."

— Faculty Code A.205, 1984 edition

Grade appeals for departments without links listed below should be referred to the Chair of the Department in question.

Afroamerican and African Studies (DAAS)

Updated and Approved March 2012

Within the College of Literature, Science, and the Arts, instructors are required to set fair and consistent grading procedures for their courses. The expectation is that instructors will evenly apply their grading rubrics to all students. Students may inquire about the accuracy of their final grade if they can provide evidence that the instructor has:

- 1) deviated from previously stated grading standards
- 2) applied such standards inconsistently
- 3) failed to take into full consideration all graded components of a course
- 4) assigned a grade based on criteria other than performance in the course. A student's belief that an instructor's grading standards are stricter than those of other instructors normally does not constitute grounds for grievance.

Within the Department of Afroamerican and African Studies, students who want to inquire about the accuracy of their final grade should pursue the following steps:

1) Consultation with Instructor:

As a first step, the student should consult with the lead instructor of the course. This initial inquiry should take place within the first fifteen University business days of the first full term following the term in which the disputed grade was issued. After this initial inquiry, if the student continues to dispute the final grade, s/he may choose to initiate a formal grade grievance procedure.

2) Formal Complaint to Director of Undergraduate Studies (DUS):

To initiate a formal grade grievance procedure, the student should contact the Director of Undergraduate Studies (DUS) before the end of the fifth week of classes in the first full term following the term in which the disputed grade was issued. The student must convey in writing the basis for the complaint. This written complaint should include: 1) specific evidence that the grade was given in error or was arbitrarily determined, 2) a summary of the student's initial consultation with the course instructor, and 3) a summary of the aspects of the case that remain in dispute. Upon receipt of the written complaint, the DUS will ask the instructor to provide a written summary explaining how the final grade was determined and respond to the specific claims made by the student.

After receiving this information from both the student and the instructor, the DUS will determine whether to convene the Department's Grade Grievance Committee. If the DUS determines that there is no evidence to support a grade grievance, the matter will be considered closed and the original grade will stand. If the DUS determines that the grade grievance should proceed, s/he will set a date for a formal hearing with the Grade Grievance Committee.

3) Grade Grievance Committee Hearing:

For undergraduate students, the DAAS Grade Grievance Committee will consist of the Director of Undergraduate Studies and two faculty members of the Curriculum Committee. For graduate students, the DAAS Grade Grievance Committee will consist of the Director of Undergraduate Studies, the Associate Director of DAAS, and one faculty member of the Curriculum Committee. If the instructor in question is a member of the DAAS Grade Grievance Committee, s/he will be excused and another member of the Curriculum Committee will serve as substitute.

Before the Grade Grievance Committee convenes, both the student and the instructor will receive copies of the student's written complaint and the instructor's written response. During the formal hearing, the student will first present the basis of his or her complaint. The instructor will then explain how s/he determined the student's final grade. After an open period of discussion among the student, the instructor, and members of the Grade Grievance Committee, the hearing will be adjourned.

4) Recommendation from Grade Grievance Committee:

The Grade Grievance Committee will have ten University business days to determine its recommendation.

If the committee decides that there is no basis for a grade change, the DUS will convey this fact in writing to the student and the instructor. The original grade will stand and the matter will be considered closed.

If the committee recommends a grade change, the DUS will ask the instructor to respond in writing within five University business days indicating whether or not s/he will abide by the Grade Grievance Committee's recommendation. If the instructor agrees to a grade change, the DUS will inform the student in writing, the student's final course grade will be changed, and the matter will be considered closed.

If an instructor does not accept the Grade Grievance Committee's recommendation to change the final grade, the original grade will stand. The DUS will inform the student in writing and the matter will be considered closed. By College policy, a final course grade rests solely with the instructor, and a course grade cannot be changed without the instructor's consent.

5) Consultation with the Office of Student Academic Affairs:

Grade grievances end at the Department level. There is no appeal beyond the Department. The Office of the Assistant Dean for Student Academic Affairs is available for consultation and review of the process to ensure that all procedures have been followed.

American Culture Department

Updated and Approved May 2012

I. Preamble

Within the College of Literature, Science, and the Arts, instructors are expected to set fair and consistent grading procedures for their respective courses. The key to implementing fair grading procedures in courses across the College is that individual instructors adhere to grading rubrics that are applied evenly and consistently to all students within a respective course. If the grading rubric is used consistently for each student, then the final grade is assumed to be the correct grade. Nevertheless, students can inquire about a grade and subsequently initiate a grade grievance when they think that the grade was unfairly given.

II. Consultation with Instructor

The first step in inquiring about the accuracy of a final grade should be directed to the lead instructor of the course. This initial inquiry should take place within the first fifteen University business days of the first full term following the term in which the disputed grade was issued. If, after this inquiry, the student is not satisfied with the instructor's response, the student may choose to initiate a formal grade grievance. To initiate a formal grade grievance, the student should contact the Director of Undergraduate Studies (DUS) of the home department of the

course in question before the end of the fifth week of classes in the first full term following the term in which the disputed grade was issued.

III. Formal complaint to Director of Undergraduate Studies (DUS)

To initiate the formal grade grievance process, the student must convey in writing the basis for the complaint, with specific evidence in support of the argument that the grade either was given in error or was unfairly determined. This formal complaint also should summarize the outcome of the initial inquiry to the course instructor, indicating what aspects are in dispute. Upon receipt of the written complaint, the AC Undergraduate Committee/DUS will ask the instructor to provide a written summary restating how the final grade was determined and to respond to the specific claims made by the student.

After receiving this information from both the student and the instructor, the DUS will then determine if sufficient evidence exists to convene the Department's Grade Grievance Committee. If the AC Undergraduate Committee/DUS determines that there is insufficient evidence for the grade grievance, the matter is considered closed, and the original grade stands.

If the AC Undergraduate Committee/DUS determines that the grade grievance should proceed, a date for a formal hearing with the Grade Grievance Committee will be set. The Grade Grievance Committee will consist of the DUS, at least one other faculty member (typically, a member of the Undergraduate Committee) and at least one undergraduate (to be selected by the DUS).

IV. Grade Grievance Hearing

Once it has been determined that a formal hearing will be held, the DUS will empanel the appropriate Departmental Grade Grievance Committee. Both the student filing the grade grievance and the respective instructor 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 his or her complaint; the instructor will then be asked to present his or her explanation for how grades were determined. Following an open period of questions to all parties, (i.e., the student, the instructor and the Grade Grievance committee members), the formal hearing will be adjourned.

V. Grade Grievance Committee's Recommendation

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

If the Grade Grievance Committee decides that a grade change is not warranted, the 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 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 DUS indicating whether or not he/she will abide by the Grade Grievance Committee's recommendation. If the instructor agrees to a grade change, the 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 an instructor does not accept the Grade Grievance Committee's recommendation to change the final grade, the original grade will stand. By College policy, 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 DUS will convey in writing this decision to the student. The matter is considered closed. There is no appeal beyond the Department.

Anthropology Department

Updated and Approved January 2012

Within the College of Literature, Science, and the Arts, instructors are expected to set fair and consistent grading procedures for their respective courses. The key to implementing fair grading procedures in courses across the College is that individual instructors adhere to grading rubrics that are applied evenly and consistently to all students within a respective course. If the grading rubric is used consistently for each student, then the final grade is assumed to be the correct grade. Nevertheless, students can inquire about a grade and subsequently initiate a grade grievance when they think that the grade was unfairly given.

Consultation with Instructor

The first step in inquiring about the accuracy of a final grade should be directed to the lead instructor of the course. This initial inquiry should take place within the first fifteen University business days of the first full term following the term in which the disputed grade was issued. If, after this inquiry, the student is not satisfied with the instructor's response, the student may choose to initiate a formal grade grievance. To initiate a formal grade grievance, the student should contact the Director of Undergraduate Studies (DUS) within the Department of Anthropology before the end of the fifth week of classes in the first full term following the term in which the disputed grade was issued.

Formal Complaint to Director of Undergraduate Studies (DUS)

To initiate the formal grade grievance process, the student must convey in writing the basis for the complaint, with specific evidence in support of the argument that the grade either was given in error or was unfairly determined. This formal complaint also should summarize the outcome of the initial inquiry to the course instructor, indicating what aspects are in dispute. Upon receipt of the written complaint, the DUS will ask the instructor to provide a written summary restating how the final grade was determined and to respond to the specific claims made by the student.

After receiving this information from both the student and the instructor, the DUS will then determine if sufficient evidence exists to convene the Department's Grade Grievance Committee. (In Anthropology, Grade Grievance Committee responsibilities are held by the Department's Curriculum Committee.) If the DUS determines that there is insufficient evidence for the grade grievance, the matter is considered closed, and the original grade stands.

If the DUS determines that the grade grievance should proceed, a date for a formal hearing with

the Grade Grievance Committee will be set.

Grade Grievance Hearing

Once it has been determined that a formal hearing will be held, the DUS will empanel the appropriate Departmental Grade Grievance Committee. The student filing the grade grievance will be provided with the instructor's summary in advance of the formal hearing, and the respective instructor will be provided with the student's written complaint in advance of the formal hearing. During the formal hearing, the student will be asked to first present the basis of his or her complaint. The instructor will then be asked to present his or her explanation for how grades were determined. If the instructor is not available (e.g. on leave) to respond in person, the instructor may provide a written statement. Following an open period of questions to all parties, i.e., the student, the instructor (if feasible) and the Grade Grievance committee members, the formal hearing will be adjourned.

Grade Grievance Committee's Recommendation

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

If the Grade Grievance Committee decides that a grade change is not warranted, the 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 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 DUS indicating whether or not he/she will abide by the Grade Grievance Committee's recommendation. If the instructor agrees to a grade change, the 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 an instructor does not accept the Grade Grievance Committee's recommendation to change the final grade, the original grade will stand. By College policy, 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 DUS will convey in writing this decision to the student. The matter is considered closed. There is no appeal beyond the Department.

Applied Liberal Arts

Updated and Approved August 2012

Within the College of Literature, Science, and the Arts, instructors are expected to set fair and consistent grading procedures for their respective courses. The key to implementing fair grading procedures in courses across the College is that individual instructors adhere to grading rubrics that are applied evenly and consistently to all students within a respective course. If the grading rubric is used consistently for each student, then the final grade is assumed to be the correct grade. Nevertheless, students can inquire about a grade and subsequently initiate a grade grievance when they think that the grade was unfairly given.

The Applied Liberal Arts Division is a unit of the Office of the LSA Associate Dean for Undergraduate Education. Students who want to inquire about the accuracy of their final grade in ALA courses should pursue the following steps:

Consultation with Instructor

The first step in inquiring about the accuracy of a final grade should be directed to the lead instructor of the course. This initial inquiry should take place within the first fifteen University business days of the first full term following the term in which the disputed grade was issued. If, after this inquiry, the student is not satisfied with the instructor's response, the student may choose to initiate a formal grade grievance. To initiate a formal grade grievance, the student should contact the Assistant Dean for Undergraduate Education before the end of the fifth week of classes in the first full term following the term in which the disputed grade was issued.

Formal Complaint to the Assistant Dean for Undergraduate Education

To initiate the formal grade grievance process, the student must convey in writing the basis for the complaint, with specific evidence in support of the argument that the grade either was given in error or was unfairly determined. This formal complaint also should summarize the outcome of the initial inquiry to the course instructor, indicating what aspects are in dispute. Upon receipt of the written complaint, the Assistant Dean will ask the instructor to provide a written summary restating how the final grade was determined and to respond to the specific claims made by the student.

After receiving this information from both the student and the instructor, the Assistant Dean will then determine if sufficient evidence exists to convene the ALA Division's Grade Grievance Committee. If the Assistant Dean determines that there is insufficient evidence for the grade grievance, the matter is considered closed, and the original grade stands. If the Assistant Dean determines that the grade grievance should proceed, a date for a formal hearing with the Grade Grievance Committee will be set.

Grade Grievance Hearing

Once it has been determined that a formal hearing will be held, the Assistant Dean will empanel the appropriate Applied Liberal Arts Division Grade Grievance Committee. Both the student filing the grade grievance and the respective instructor 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 his or her complaint; the instructor will then be asked to present his or her explanation for how grades were determined. Following an open period of questions to all parties, i.e., the student, the instructor and the Grade Grievance committee members, the formal hearing will be adjourned.

Grade Grievance Committee's Recommendation

The Grade Grievance Committee will then have ten University business days to determine its recommendation and submit a written report to the Assistant Dean.

If the Grade Grievance Committee decides that a grade change is not warranted, the Assistant Dean 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 Assistant Dean 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 Assistant Dean indicating whether or not he/she will abide by the Grade Grievance Committee's recommendation. If the instructor agrees to a grade change, the Assistant Dean 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 an instructor does not accept the Grade Grievance Committee's recommendation to change the final grade, the original grade will stand. By College policy, 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 Assistant Dean will convey in writing this decision to the student. The matter is considered closed. There is no appeal beyond the Applied Liberal Arts Division.

Asian Languages and Cultures Department

Updated and Approved October 2010

The Department of Asian Languages and Cultures reviews grade grievances in order to insure that grades given in departmental courses are fairly assigned. Our procedures require students to put grievances in writing and ask instructors to provide a written response. While these procedures are directed toward producing a recommendation on whether or not a grade should be revised, they respect the College of LSA's Faculty Code B 5.01 policy that a grade given by a faculty member may only be changed by that faculty member (or by the course supervisor in the case of a multi-section course). The department believes that instructors are in the best position to determine the quality of student work; merely disagreeing with a grade cannot constitute grounds for a grievance. Only a course grade can be grieved, not the grading on an individual assignment.

1. Before a formal grievance can be filed, a student must discuss the conflict with the instructor of the course (or with the course supervisor in the case of a multi-section course). Both parties must engage in an open discussion of grading policies and endeavor to reach an equitable solution.
2. If a satisfactory resolution is not reached, the student may file a grievance with the Chair of the department. This must be done within the first six weeks of the Fall or Winter Term following the semester in which the course generating the grievance was taught, or within six weeks after the submission of a grade replacing an Incomplete. The grievance takes the form of a statement, accompanied by relevant graded materials. The statement should detail the disagreements that remain after the discussion between the student and the instructor required above.
3. The Chair will convey the grievance to the Director of Undergraduate Studies (DUS) who, determining that the grievance has merit, will organize an ad hoc committee of at least two other members who may have expertise or knowledge in the subject matter of the course for which the grade is being grieved. In the event that the DUS is the instructor of the course in

question, the Chair may appoint another faculty member to chair the review. The DUS will provide the instructor with the student's statement and request a written response. After reviewing the documents, the DUS and the assembled committee, if necessary, may speak with the student and the instructor to determine if further documentation needs to be elicited to aid in the decision-making process. The DUS will then issue a recommendation agreed upon by all committee members that is communicated in writing to the student and the instructor, and copied to the department's Chair. No further appeals are possible at the department level.

4. In the event that the instructor is no longer at the University of Michigan, a student may present a grievance to the department Chair without first discussing the conflict with the instructor. The DUS and the committee will make every effort to contact the instructor to elicit a response before arriving at a recommendation.

Astronomy Department

Updated and Approved June 2012

Within the College of Literature, Science and the Arts, and the Department of Astronomy, instructors are expected to set fair and consistent grading procedures for their respective courses. The key to implementing fair grading procedures in courses across the College of Literature, Science & the Arts is that individual instructors adhere to grading rubrics that are applied evenly and consistently to all students within a respective course. If the grading rubric is used consistently for each student, then the final grade is assumed to be the correct grade. Nevertheless, students can inquire about a grade and subsequently initiate a grade grievance when they think that the grade was unfairly given.

Consultation with Instructor

The first step in inquiring about the accuracy of a final grade should be directed to the lead instructor of the course. This initial inquiry should take place within the first fifteen University business days of the first full term following the term in which the disputed grade was issued. If, after this inquiry, the student is not satisfied with the instructor's response, the student may choose to initiate a formal grade grievance. To initiate a formal grade grievance, the student should contact the Chairperson of the Astronomy Department before the end of the fifth week of classes in the first full term following the term in which the disputed grade was issued.

Formal Complaint to Department Chair

To initiate the formal grade grievance process, the student must convey in writing the basis for the complaint, with specific evidence in support of the argument that the grade either was given in error or was unfairly determined. This formal complaint also should summarize the outcome of the initial inquiry to the course instructor, indicating what aspects are in dispute. Upon receipt of the written complaint, the Chair will ask the instructor to provide a written summary restating how the final grade was determined and to respond to the specific claims made by the student.

After receiving this information from both the student and the instructor, the Chair will then determine if sufficient evidence exists to convene the Department's Grade Grievance Committee. If the Chair determines that there is insufficient evidence for the grade grievance, the matter is considered closed, and the original grade stands.

If the Chair determines that the grade grievance should proceed, a date for a formal hearing with the Grade Grievance Committee will be set.

Grade Grievance Hearing

Once it has been determined that a formal hearing will be held, the Chair will empanel the appropriate Departmental Grade Grievance Committee. Both the student filing the grade grievance and the respective instructor 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 his or her complaint; the instructor will then be asked to present his or her explanation for how grades were determined. Following an open period of questions to all parties, i.e., the student, the instructor and the Grade Grievance committee members, the formal hearing will be adjourned.

Grade Grievance Committee's Recommendation

The Grade Grievance Committee will then have ten University business days to determine its recommendation and submit a written report to the Chair.

If the Grade Grievance Committee decides that a grade change is not warranted, the Chair 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 Chair 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 Chair indicating whether or not he/she will abide by the Grade Grievance Committee's recommendation. If the instructor agrees to a grade change, the Chair 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 an instructor does not accept the Grade Grievance Committee's recommendation to change the final grade, the original grade will stand. By College policy, 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 Chair will convey in writing this decision to the student. The matter is considered closed. There is no appeal beyond the Department.

Biology Programs

(Updated and Approved September 2014; replaces previous version from May 1992)

Preamble

Within the College of Literature, Science, and the Arts, instructors are expected to set fair and consistent grading procedures for their respective courses. The key to implementing fair grading procedures in courses across the College is that individual instructors adhere to grading rubrics that are applied evenly and consistently to all students within a respective course. If the grading rubric is used consistently for each student, then the final grade is assumed to be the correct grade. Nevertheless, students can inquire about a grade and subsequently initiate a grade

grievance when they think that the grade was unfairly given.

Two principles should be clearly understood as part of the context of any grade grievance:

1. A grade given by a faculty member may be changed only by that faculty member (Faculty Code B 5.0.1).
2. While the Program wishes to see demonstrably unfair grades rectified, it will not automatically invoke the full procedure described below for every grievance. For example, a grievance based on the argument that one instructor's grading standards are stricter than those of others will normally not be pursued.

Consultation with Instructor

The student should first confer with his/her instructor (and with the course coordinator, if there is one) to make sure that both are aware of all the pertinent facts and to identify the issues that are in dispute. This initial inquiry should take place within the first fifteen*University business days of the first full term following the term in which the disputed grade was issued. If, after this inquiry, the student is not satisfied with the instructor's response, the student may choose to initiate a formal grade grievance. To initiate a formal grade grievance, the student should contact the Director of the Program in Biology or the Associate Chair for Undergraduate Studies of the home department of the course in question before the end of the fifth* week of classes in the first full term following the term in which the disputed grade was issued.

If the course is cross-listed with another school or LS&A department, the affiliation of the person responsible for submitting the final grade report should determine the department or school in which the grade grievance is processed.

Formal complaint to the Director of the Program in Biology or the Associate Chair of Undergraduate Studies in EEB or MCDB.

To initiate the formal grade grievance process, the student must convey in writing the basis for the complaint, with specific evidence in support of the argument that the grade either was given in error or was unfairly determined. This formal complaint also should summarize the outcome of the initial inquiry to the course instructor, indicating what aspects are in dispute. Upon receipt of the written complaint, the Program Director or Associate Chair for Undergraduate Studies will ask the instructor to provide a written summary restating how the final grade was determined and to respond to the specific claims made by the student.

After receiving this information from both the student and the instructor, the Program Director or Associate Chair will then determine if sufficient evidence exists to convene the Program's Grade Grievance Committee. If the Program Director or Associate Chair determines that there is insufficient evidence for the grade grievance, the matter is considered closed, and the original grade stands.

If the Program Director or Associate Chair for Undergraduate Studies determines that the grade grievance should proceed, a date for a formal hearing with the Grade Grievance Committee will be set. The Grade Grievance Committee shall consist of the Program in Biology steering committee members (the Program Director and the two departmental Associate Chairs) and a

student. The student member will be an undergraduate if the grievant an undergraduate, or a graduate student if the grievant is a graduate student.

If several appeals are being filed, all of which are derived from a common grievance, a single Grade Grievance committee will consider all of the appeals. If the grievants include both undergraduate and graduate students, the status of the student member of the Grade Grievance Committee shall be determined by the level of the course.

Grade Grievance Hearing

Once it has been determined that a formal hearing will be held, the Program Director or Associate Chair will empanel the appropriate Grade Grievance Committee. Both the student filing the grade grievance and the respective instructor 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 his or her complaint; the instructor will then be asked to present his or her explanation for how grades were determined. Following an open period of questions to all parties, i.e., the student, the instructor and the Grade Grievance committee members, the formal hearing will be adjourned.

V. Grade Grievance Committee's Recommendation

The Grade Grievance Committee will then have ten* University business days to determine its recommendation and submit a written report to the Program in Biology steering committee and appropriate departmental chair.

If the Grade Grievance Committee decides that a grade change is not warranted, the Program Director or Associate Chair 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 Program Director or Associate Chair 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 Program Director or Associate Chair indicating whether or not he/she will abide by the Grade Grievance Committee's recommendation. If the instructor agrees to a grade change, the Program Director or Associate Chair for Undergraduate Studies 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 an instructor does not accept the Grade Grievance Committee's recommendation to change the final grade, the original grade will stand. By College policy, 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 Program Director or Associate Chair will convey in writing this decision to the student. The matter is considered closed. There is no appeal beyond the Department.

For further information, please contact the Student Services Manager at 734-764-2446.

*All time frames are based on faculty availability and are subject to change without warning. Student should consult with the Program in Biology for specific timing.

Biophysics Program

Updated and Approved June 2012

Introduction

The faculty of the Biophysics Program strongly believes that the determination of the grade for course work is the prerogative of the instructor in the course. Grades as a judgment of quality will always be in part inherently subjective, and it is recognized that the course instructor is by far in the best position to make this judgment. On the other hand, it is also recognized that the students and the program as a whole have a strong interest in ensuring that grades are assigned fairly, equitably, and without personal bias.

Therefore, the Biophysics Program adopts the following procedures to resolve disputes over course grades.

Grounds for Appeal

A grade in a course can be appealed on grounds that it is unjust because of clerical error, capricious or biased judgment, ex post facto changes in course requirements or lack of uniformity in the application of standards within a class. Dissatisfaction with the grade alone is not sufficient for an appeal. This procedure is also not applicable to complaints stemming from differences in the level of difficulty from one course to another or to complaints arising from a misunderstanding of the basis for evaluations if that basis was described clearly in writing.

Informal Appeal

The best way to resolve grade disputes is through direct communication with the course instructor. Therefore, the appeals process is initiated through a request from the student to meet with the instructor within two weeks after the final course grade is assigned. This request should be submitted by email and include the grounds for the appeal. The course instructor should meet with the student as soon as possible. Should off-campus duties prevent the instructor from meeting with the student within two weeks after the request is made, a meeting must be scheduled as soon as feasible, and the appropriate Associate Chair of the Program be informed. If the instructor is a Graduate Student Instructor (GSI), the faculty member in charge of the course will be included in all communications and the meeting. After the meeting, the instructor shall follow up with an email to the student and the relevant Associate Chair to confirm any decisions reached in the meeting. This informal appeal can be bypassed only with the permission of the Associate Chair, if the nature of the dispute is such that it would be unreasonable to expect the student to meet with the instructor directly.

Formal Appeal to Associate Chair

If the grade dispute cannot be resolved through the informal appeal process above, a formal appeal can be filed with the Associate Chair for the Undergraduate/Graduate Program. If the Associate Chair is also the course instructor, the Program Chair will take his or her place in the

appeals process. This formal appeal to the Associate Chair has to be filed in writing within one week after the meeting with the instructor, or within three weeks of the assignment of the final grade. The appeal must state the grounds for the appeal and the remedy sought.

This formal appeal process is intended to correct gross injustices, but not minor disagreements which are inherent to the grading process. Therefore, only appeals that would make a significant difference in the student's grade or affect his or her standing in the College or Program can be pursued through this process. As a rule, a dispute over one fractional grade (B+ instead of B, for instance) in the final course grade is not considered significant enough for the initiation of a formal appeal, unless overriding concerns of fairness warrant otherwise. The Associate Chair will make this determination.

Once the appeal is received and the determination of significance is made, the Associate Chair will contact the course instructor and request a written reply within two weeks. Based on the complaint and the reply, the Associate Chair will issue a recommendation in writing to the instructor and student, which may range from a request to the instructor change the grade, to requirement for additional work, or to dismissal of the complaint. The instructor must acknowledge the receipt of the recommendation promptly and state whether he or she will abide by it.

Appeal to the Grade Grievance Committee

If the student is not satisfied with the recommendation of the Associate Chair, or if the course instructor refuses to follow the recommendation, the student may request a hearing in front of an ad-hoc grade grievance committee. Such a hearing must be requested in writing within two weeks after the recommendation is issued or the instructor refused to comply. The Grade Grievance Committee is appointed by the Program Chair and consists of the appropriate Associate Chair who will chair the Committee, one additional instructional faculty member of the program, and a student representative. If the complainant is an undergraduate student, the student representative should be an upper-level biophysics major in good standing; if the complaint is filed by a graduate student the student representative should be a graduate student in the Biophysics program. The hearing will be scheduled as soon as possible. During the hearing, all sides should state their positions, and every attempt to reach a mutually agreeable resolution should be made. A student services associate will record minutes of the hearing and collect any documents that are presented for the files of the program. After the hearing, a written decision will be issued and certified by the Program Chair within two weeks of the hearing.

Resolution of the Case

The decision of the Grade Grievance Committee is final and no further appeals are possible. This decision shall be reached within six months after the grade in question is assigned, at the latest. The program expects everyone involved to abide by the decision, even though it is recognized that the final authority for the determination of the grade still rests with the course instructor. 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 he/she 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 an instructor does not accept the Grade Grievance Committee's recommendation to change the final grade, the original grade will stand. By College policy, 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.

Chemistry Department

Updated and Approved January 2013

I. Preamble

Within the College of Literature, Science, and the Arts, instructors are expected to set fair and consistent grading procedures for their respective courses. The key to implementing fair grading procedures in courses across the College is that individual instructors adhere to grading rubrics that are applied evenly and consistently to all students within a respective course. If the grading rubric is used consistently for each student, then the final grade is assumed to be the correct grade. Nevertheless, students can inquire about a grade and subsequently initiate a grade grievance when they think that the grade was unfairly given.

II. Consultation with Instructor

The first step in inquiring about the accuracy of a final grade should be directed to the lead instructor of the course. This initial inquiry should take place within the first fifteen University business days of the first full term following the term in which the disputed grade was issued. If, after this inquiry, the student is not satisfied with the instructor's response, the student may choose to initiate a formal grade grievance. To initiate a formal grade grievance, the student should contact the Associate Chair of Undergraduate Studies (ACUS) of the home department of the course in question before the end of the fifth week of classes in the first full term following the term in which the disputed grade was issued.

III. Formal Complaint to Associate Chair of Undergraduate Studies (ACUS)

To initiate the formal grade grievance process, the student must convey in writing the basis for the complaint, with specific evidence in support of the argument that the grade either was given in error or was unfairly determined. This formal complaint also should summarize the outcome of the initial inquiry to the course instructor, indicating what aspects are in dispute. Upon receipt of the written complaint, the ACUS will ask the instructor to provide a written summary restating how the final grade was determined and to respond to the specific claims made by the student.

After receiving this information from both the student and the instructor, the ACUS will then determine if sufficient evidence exists to convene the Department's Grade Grievance Committee. If the ACUS determines that there is insufficient evidence for the grade grievance, the matter is considered closed, and the original grade stands.

If the ACUS/DUS determines that the grade grievance should proceed, a date for a formal hearing with the Grade Grievance Committee will be set.

IV. Grade Grievance Hearing

Once it has been determined that a formal hearing will be held, the ACUS will empanel the appropriate Departmental Grade Grievance Committee. Both the student filing the grade grievance and the respective instructor 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 his or her complaint; the instructor will then be asked to present his or her explanation for how grades were determined. Following an open period of questions to all parties, i.e., the student, the instructor and the Grade Grievance committee members, the formal hearing will be adjourned.

V. Grade Grievance Committee's Recommendation

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

If the Grade Grievance Committee decides that a grade change is not warranted, the ACUS 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 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 indicating whether or not he/she will abide by the Grade Grievance Committee's recommendation. If the instructor agrees to a grade change, the ACUS 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 an instructor does not accept the Grade Grievance Committee's recommendation to change the final grade, the original grade will stand. By College policy, 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 will convey in writing this decision to the student. The matter is considered closed. There is no appeal beyond the Department.

Classical Studies Department

Updated and Approved January 2016; replaces Reaffirmed Version: May 1992

I. Preamble

Course instructors have the responsibility for awarding to students the grades that are most fit, both for the course itself and for all work in the course. The Department expects its instructors to exercise good judgment in grading, and in general presumes that they have done so. For this reason, the Department will not examine a grade unless a student files a grade grievance that raises reasonable doubt about the fairness of the grade. In all cases of reasonable doubt, the

Department tries to consider and deal with such grievances in a fair and open-minded manner, so that the rights of the aggrieved students and instructors are both respected.

II. Consultation with Instructor

The first step in inquiring about the accuracy of a final grade should be directed to the instructor of the course. If a GSI has had the responsibility for grading, the student should first discuss the problem with the GSI. If the issue cannot be settled between the student and the GSI, the student should discuss it with the faculty member in charge of the course. This initial inquiry should take place within the first fifteen University business days of the first full term following the term in which the disputed grade was issued. If, after this inquiry, the student is not satisfied with the response of the instructor, GSI, or faculty member in charge of the course, the student may choose to initiate a formal grade grievance. To initiate a formal grade grievance, the student should contact the Director of Undergraduate Studies (DUS) before the end of the fifth week of classes in the first full term following the term in which the disputed grade was issued. In cases in which the DUS is not a Full Professor and the instructor is a Full Professor, the Chair of the Department may choose to appoint a Full Professor to serve in place of the DUS.

III. Formal Complaint to the Director of Undergraduate Studies (DUS)

To initiate the formal grade grievance process, the student must convey in writing the basis for the complaint, with specific evidence in support of the argument that the grade either was given in error or was unfairly determined. This formal complaint also should summarize the outcome of the initial inquiry to the course instructor, indicating what aspects are in dispute. Upon receipt of the written complaint, the DUS will ask the instructor to provide a written summary restating how the final grade was determined and to respond to the specific claims made by the student. If the complaint is against the DUS, the Chair will appoint a replacement.

After receiving this information from both the student and the instructor, the DUS will then determine if sufficient evidence exists to convene an ad hoc Grievance Committee to hear the complaint. If the DUS determines that there is insufficient evidence for the grade grievance, the matter is considered closed, and the original grade stands. If the DUS determines that there is sufficient evidence to move forward with the grade grievance process, she/he will appoint a Grade Grievance Committee. The Grievance Committee will consist of two faculty members of at least equal rank with the instructor against whom the grievance has been lodged, and either an undergraduate or a graduate student (depending on the complainant's status). The student member of the committee will be selected by the DUS. The role of the student member of the committee is to provide a student perspective on the case, and although the committee does not take a formal vote, it is expected that the view of the student member of the committee be weighted equally with those of the faculty members on the committee in determining the committee's recommendation.

If the DUS determines that the grade grievance should proceed, a date for a formal hearing with the ad hoc Grievance Committee will be set.

IV. Grade Grievance Hearing

Before the formal hearing is held, the Chair of the Grade Grievance Committee will instruct the student member of the committee on confidentiality issues. In addition, in advance of the formal hearing, the student filing the grade grievance and the respective instructor will be provided with copies of the written student complaint and the instructor's summary. During the formal hearing, the student will be asked to first present the basis of his or her complaint; the instructor will then be asked to present his or her explanation for how grades were determined. A GSI against whom a grievance has been made may ask that the faculty supervisor attend the hearing. If the GSI is no longer at the university, the faculty supervisor may represent him or her. No other representatives may be present. Following an open period of questions to all parties, *i.e.*, the student, the instructor and the Grade Grievance committee members, the formal hearing will be adjourned.

V. Grade Grievance Committee's Recommendation

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

If the Grade Grievance Committee decides that a grade change is not warranted, the 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 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 DUS indicating whether or not he/she will abide by the Grade Grievance Committee's recommendation. If the instructor agrees to a grade change, the 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.

In the very rare cases in which an instructor refuses to change a grade in accordance with a panel's recommendation, the grade will stand, but the student should confer with the chair or chair's representative. The department may, for example, provide the student with a letter explaining the circumstances.

[Communication Studies Department](#)

Updated and Approved January 2012

Within the College of Literature, Science, and the Arts, instructors are expected to set fair and consistent grading procedures for their respective courses. The key to implementing fair grading procedures in courses across the College is that individual instructors adhere to grading rubrics that are applied evenly and consistently to all students within a respective course. If the grading rubric is used consistently for each student, then the final grade is assumed to be the correct grade. By College policy, a final course grade rests solely with the instructor and, as such, a course grade cannot be changed without the instructor's consent. Nevertheless, students can inquire about a final grade and subsequently initiate a grade grievance when they think that the grade was unfairly given.

Students who have received a final grade they consider unjust from teachers in the Department should follow the steps below in seeking a review of the grade. These steps are designed to bring an understanding of the course standards and the grade, not to dispute the ultimate right of an instructor to make such evaluations.

Step 1: Consultation with the Instructor

Any student who believes a final grade is in error may ask to have it reviewed. This initial inquiry should take place no later than within the first ten University business days of the first full term following the term in which the disputed grade was issued. Grades are only changed in case of clerical error or if it can be demonstrated that the posted grading rubric was not followed. In courses with GSIs, students should meet with the GSI first to discuss the grade. If the GSI and student cannot come to an agreement the student should then meet with the faculty supervisor of the course. In courses without GSIs, the student should contact the faculty member to discuss the grade. It is hoped that any dispute may be resolved at this meeting.

Step 2: Written Appeal to Department Chair

If the meeting between the student and instructor is not productive in resolving differences, the student should indicate the nature of the complaint in writing to the Department Chair. This document should include evidence supporting the student's claim, with specific evidence in support of the argument that the grade either was given in error or was unfairly determined. This formal complaint also should summarize the outcome of the initial inquiry to the course instructor, indicating what aspects are in dispute. Except for clerical errors or mistakes in following the posted grading rubric, the Chair is not authorized to change grades given by faculty members. Upon receipt of the written complaint, the chair will ask the instructor to provide a written summary restating how the final grade was determined and to respond to the specific claims made by the student. If the Chair determines the complaint is justified, s/he will refer the complaint to the department's Grade Grievance Committee. On the other hand, if it is concluded that the complaint is not justified, the student will be so informed, the matter is considered closed, and the original grade stands.

Step 3: Grade Grievance Hearing

If the Chair determines that the grade grievance should proceed, a date for a formal hearing with the Grade Grievance Committee will be set. Both the student filing the grade grievance and the respective instructor 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 his or her complaint; the instructor will then be asked to present his or her explanation for how grades were determined. Following an open period of questions to all parties, i.e., the student, the instructor and the Grade Grievance committee members, the formal hearing will be adjourned.

Step 4: Grade Grievance Committee's Recommendation

The Grade Grievance Committee will then have ten University business days to determine its recommendation and submit a written report to the Chair. If the Grade Grievance Committee

decides that a grade change is not warranted, the Chair 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 Chair 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 Chair indicating whether or not he/she will abide by the Grade Grievance Committee's recommendation. If the instructor agrees to a grade change, the Chair 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 an instructor does not accept the Grade Grievance Committee's recommendation to change the final grade, the original grade will stand. By College policy, 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 Chair will convey in writing this decision to the student. The matter is considered closed. There is no appeal beyond the Department.

Comparative Literature Department

Approved January 2013

I. Introduction

The Department of Comparative Literature strives to set fair and consistent grading procedures for its courses. Nevertheless, students may inquire about a grade and subsequently initiate a grade grievance when they think that a grade has been unfairly given.

There are two principles which should be clearly understood as part of the context of any grade grievance:

1. A grade given by a faculty member may be changed only by that faculty member (Faculty Code B 5.01). A grade given in a class taught by a teaching assistant may be changed only by the faculty supervisor of the course. Departmental grievance procedures are intended to issue a recommendation, for or against a change, to the appropriate faculty member.
2. While the Department wishes to see demonstrably unfair grades rectified, it will not automatically invoke the full procedure described below for every grievance. Grievances must be based on substantive grounds; merely disagreeing with the grade does not constitute grounds for a grievance. Grievances based on the argument that one instructor's grading standards are stricter than those of others will normally not be pursued.

II. Consultation with Instructor

The first step in inquiring about the accuracy of a final grade should be directed to the instructor (and faculty supervisor of the course, if there is one), to make the instructor(s) aware of all the pertinent facts and to identify the issues in dispute. This initial inquiry should take place within the first fifteen University business days of the first full term following the term in which the disputed grade was issued.

III. Formal Complaint to Director of Undergraduate Studies (DUS) or Director of Graduate Studies

If the first step does not lead to a resolution, the student must convey in writing the basis for the complaint, with specific evidence in support of the argument that the grade either was given in error or was unfairly determined. The student must be prepared to make available any written work from the course, if requested. The formal complaint also should summarize the outcome of the initial inquiry to the course instructor, indicating what aspects are in dispute. Grievances, should be filed by the end of the fifth week of classes in the first full term following the term in which the disputed grade was issued.

Upon receipt of the written complaint, the DUS (for undergraduate grade grievances)/DGS (for graduate grade grievances) will ask the instructor to provide a written summary restating how the final grade was determined and to respond to the specific claims made by the student.

After receiving this information from both the student and the instructor, the DUS/DGS will then determine if sufficient evidence exists to convene the Department's Grade Grievance Committee. If the DUS/DGS determines that there is insufficient evidence for the grade grievance, the matter is considered closed, and the original grade stands.

If the DUS/DGS determines that the grade grievance should proceed, a date for a formal hearing with the Grade Grievance Committee will be set.

IV. Grade Grievance Hearing

Once it has been determined that a formal hearing will be held, the DUS/DGS will empanel the appropriate Departmental Grade Grievance Committee. The Grade Grievance Committee is comprised of either the DUS and at least two members of the Undergraduate Committee or the DGS and at least two members of the Graduate Committee.

Both the student filing the grade grievance and the respective instructor 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 his or her complaint; the instructor will then be asked to present his or her explanation for how grades were determined. Following an open period of questions to all parties, i.e., the student, the instructor and the Grade Grievance committee members, the formal hearing will be adjourned.

V. Grade Grievance Committee's Recommendation

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

If the Grade Grievance Committee decides that a grade change is not warranted, the DUS/DGS 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 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 DUS/DGS indicating whether or not he/she will abide by the Grade

Grievance Committee's recommendation. If the instructor agrees to a grade change, the DUS/DGS 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 an instructor does not accept the Grade Grievance Committee's recommendation to change the final grade, the original grade will stand. By College policy, 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 DUS/DGS will convey in writing this decision to the student. The matter is considered closed. There is no appeal beyond the Department.

If a grade change is permitted, a Supplemental Grade Report must be submitted by the professor so the student can have the grade reported on his/her academic record.

Complex Systems Program

Updated and Approved July 2012

I. Preamble

Within the College of Literature, Science, and the Arts, instructors are expected to set fair and consistent grading procedures for their respective courses. The key to implementing fair grading procedures in courses across the College is that individual instructors adhere to grading rubrics that are applied evenly and consistently to all students within a respective course. If the grading rubric is used consistently for each student, then the final grade is assumed to be the correct grade. Nevertheless, students can inquire about a grade and subsequently initiate a grade grievance when they think that the grade was unfairly given.

II. Consultation with Instructor

The first step in inquiring about the accuracy of a final grade should be directed to the lead instructor of the course. This initial inquiry should take place within the first fifteen University business days of the first full term following the term in which the disputed grade was issued. If, after this inquiry, the student is not satisfied with the instructor's response, the student may choose to initiate a formal grade grievance. To initiate a formal grade grievance, the student should contact the Director of the Center for the Study of Complex Systems before the end of the fifth week of classes in the first full term following the term in which the disputed grade was issued. If the Director is the instructor of the course, an alternate faculty member will be appointed to serve in place of the Director.

III. Formal complaint to Director of the Center for the Study of Complex Systems (CSCS)

To initiate the formal grade grievance process, the student must convey in writing the basis for the complaint, with specific evidence in support of the argument that the grade either was given in error or was unfairly determined. This formal complaint also should summarize the outcome of the initial inquiry to the course instructor, indicating what aspects are in dispute. Upon receipt of the written complaint, the Director will ask the instructor to provide a written summary restating how the final grade was determined and to respond to the specific claims made by the student. If the Director is the instructor of the course for which the grade is disputed, the

Director will not participate in the complaint process except as instructor for the course. A faculty member from the Center will be appointed to serve in place of the Director.

After receiving this information from both the student and the instructor, the Director will then determine if sufficient evidence exists to convene the Department's Grade Grievance Committee. If the Director determines that there is insufficient evidence for the grade grievance, the matter is considered closed, and the original grade stands.

If the Director determines that the grade grievance should proceed, a date for a formal hearing with the Grade Grievance Committee will be set.

IV. Grade Grievance Hearing

Once it has been determined that a formal hearing will be held, the Director will empanel the appropriate Departmental Grade Grievance Committee. Both the student filing the grade grievance and the respective instructor 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 his or her complaint; the instructor will then be asked to present his or her explanation for how grades were determined. Following an open period of questions to all parties, i.e., the student, the instructor and the Grade Grievance committee members, the formal hearing will be adjourned.

V. Grade Grievance Committee's Recommendation

The Grade Grievance Committee will then have ten University business days to determine its recommendation and submit a written report to the Director.

If the Grade Grievance Committee decides that a grade change is not warranted, the Director 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 Director 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 Director indicating whether or not he/she will abide by the Grade Grievance Committee's recommendation. If the instructor agrees to a grade change, the Director 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 an instructor does not accept the Grade Grievance Committee's recommendation to change the final grade, the original grade will stand. By College policy, 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 Director will convey in writing this decision to the student. The matter is considered closed. There is no appeal beyond the Department.

Comprehensive Studies Program

I. Preamble

Within the College of Literature, Science, and the Arts, instructors are expected to set fair and consistent grading procedures for their respective courses. The key to implementing fair grading procedures in courses across the College is that individual instructors adhere to grading rubrics that are applied evenly and consistently to all students within a respective course. If the grading rubric is used consistently for each student, then the final grade is assumed to be the correct grade. Nevertheless, students can inquire about a grade and subsequently initiate a grade grievance when they think that the grade was unfairly given.

II. Consultation with Instructor

The first step in inquiring about the accuracy of a final grade should be directed to the lead instructor of the course. This initial inquiry should take place within the first fifteen University business days of the first full term following the term in which the disputed grade was issued. If, after this inquiry, the student is not satisfied with the instructor's response, the student may choose to initiate a formal grade grievance. To initiate a formal grade grievance, the student should contact the Associate Chair of Undergraduate Studies (ACUS) or the Director of Undergraduate Studies (DUS) of the home department of the course in question before the end of the fifth week of classes in the first full term following the term in which the disputed grade was issued.

III. Formal Complaint to the Associate Director of Instruction in Comprehensive Studies

To initiate the formal grade grievance process, the student must convey in writing the basis for the complaint, with specific evidence in support of the argument that the grade either was given in error or was unfairly determined. This formal complaint also should summarize the outcome of the initial inquiry to the course instructor, indicating what aspects are in dispute. Upon receipt of the written complaint, the Associate Director of Instruction will ask the instructor to provide a written summary restating how the final grade was determined and to respond to the specific claims made by the student.

After receiving this information from both the student and the instructor, the Associate Director of Instruction will then determine if sufficient evidence exists to convene the Department's Grade Grievance Committee. If the Associate Director of Instruction determines that there is insufficient evidence for the grade grievance, the matter is considered closed, and the original grade stands.

If the Associate Director of Instruction determines that the grade grievance should proceed, a date for a formal hearing with the Grade Grievance Committee will be set.

IV. Grade Grievance Hearing

Once it has been determined that a formal hearing will be held, the Associate Director of Instruction will empanel the appropriate Departmental Grade Grievance Committee which will include the Director of the Comprehensive Studies Program. Both the student filing the grade grievance and the respective instructor 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 his or her complaint; the instructor

will then be asked to present his or her explanation for how grades were determined. Following an open period of questions to all parties, i.e., the student, the instructor and the Grade Grievance committee members, the formal hearing will be adjourned.

V. Grade Grievance Committee's Recommendation

The Grade Grievance Committee will then have ten University business days to determine its recommendation and submit a written report to the Associate Director of Instruction.

If the Grade Grievance Committee decides that a grade change is not warranted, the Associate Director of Instruction 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 Associate Director of Instruction 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 Associate Director of Instruction indicating whether or not he/she will abide by the Grade Grievance Committee's recommendation. If the instructor agrees to a grade change, the Associate Director of Instruction 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 an instructor does not accept the Grade Grievance Committee's recommendation to change the final grade, the original grade will stand. By College policy, 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 Associate Director of Instruction will convey in writing this decision to the student. The matter is considered closed. There is no appeal beyond the Department.

[Ecology and Evolutionary](#)

[Biology](#), see [Biology Programs](#)

Above [Economics Department](#)

Updated and Approved May 2011

The University of Michigan vests ultimate grading authority in the teacher. (In this context, "the teacher" is the person, or group of persons, with ultimate pedagogical responsibility for the course as a whole.) Accordingly, students should endeavor to resolve any concerns directly and informally with their teachers. Students unable to resolve their concerns in that manner may invoke the following Grade Grievance Procedure.

1. Within the time limits set forth at the end of this document, the student shall submit a written grievance to the Director of Undergraduate Studies (DUS). This document shall contain specific complaints, supporting evidence, and a description of the student's attempts to resolve the issue directly with the teacher.

2. The DUS shall convene the Undergraduate Program Committee (UPC) for a hearing. Normally, the hearing shall occur no later than one week after the DUS receives the grievance. At least one day before the hearing, the DUS shall distribute to each member of the UPC, and to the teacher, a copy of the written grievance. Both student and teacher shall be invited to participate in the entire hearing. The parties shall be invited to make opening and/or closing statements. The UPC may question the parties. The DUS may invite one or more of the course's Graduate Student Instructors (GSIs) to speak.
3. After deliberating privately, the UPC shall issue a recommendation to the teacher. The student shall receive a copy of this recommendation. The UPC shall send this recommendation to the teacher and to the student no later than one day after the hearing.
4. If any party to the grievance is a member of the UPC, that party shall not participate in the deliberation and decision-making described in paragraph 3.
5. The teacher shall decide whether or not to modify the grade. The teacher shall communicate this decision in writing to the student and to the DUS. The teacher shall send these communications no later than three days after the teacher receives the UPC's recommendation. If the student does not appeal, the Department's procedure ends here.
6. The student may appeal to the Chair of Economics (the Chair). Only the process of the decision-making to this point in the Grade Grievance Procedure, by the UPC and/or by the teacher, may be appealed. The appeal must be filed in writing, with a copy to the DUS, no later than one week after the communication mentioned in the previous paragraph is sent to the student. The appeal shall include the original grievance and specific claims regarding violation of the process specified in this Grade Grievance Procedure.
7. If the student does appeal to the Chair, the Chair shall issue a recommendation to the teacher. The student and the DUS shall receive copies of this recommendation. Normally, the Chair shall send the recommendation and the copies no later than three days after the Chair receives the student's appeal.
8. The teacher shall decide whether or not to modify the grade. The teacher shall notify the student, the Chair, and the DUS in writing of this decision. The teacher shall send these notifications no later than three days after the teacher receives the Chair's recommendation. If the student appealed to the Chair, the Department's procedure ends here.
9. According to the Handbook for Faculty and Instructional Staff (LSA, Office of Student Academic Affairs, September 2010, p. 23), the decision resulting from this Grade Grievance Procedure is final.

TIME LIMITS FOR FILING GRADE GRIEVANCES IN ECONOMICS UNDERGRADUATE COURSES

Term	Last day to file
-------------	-------------------------

Fall January 31 of the subsequent term or two weeks after the Registrar posts the student's grade, whichever occurs later.

Winter May 31 of the subsequent term or two weeks after the Registrar posts the student's grade, whichever occurs later.

Spring July 31 of the subsequent term or two weeks after the Registrar posts the student's grade, whichever occurs later.

Summer September 30 of the subsequent term or two weeks after Registrar posts the student's grade, whichever occurs later.

English Language and Literature Department

Updated April 2016

English Department Grade Grievance Policy

The Department of English Language and Literature expects instructors to set fair and consistent grading procedures. Students may inquire about a grade and initiate a grade grievance if they have grounds to believe that an instructor has deviated from previously stated grading standards or applied such standards inconsistently.

Two principles should be clearly understood as part of the context of any grade grievance:

- A grade given by a faculty member may be changed only by that faculty member (Faculty Code B 5.01). A grade given in a class taught by a teaching assistant may be changed only by the faculty supervisor of the course.
- While the Department wishes to see demonstrably unfair grades rectified, it will not automatically invoke the full procedure described below for every grievance. For example, a grievance based on the argument that one instructor's grading standards are stricter than those of others will not be pursued.

I. Consultation with Instructor

The student should first confer with his/her instructor (and with the course supervisor, if there is one) to make sure that both are aware of all the pertinent facts and to identify the issues that are in dispute. This initial inquiry should take place within the first fifteen University business days of the first full term following the term in which the disputed grade was issued.

II. Formal Complaints to Grade Grievance Officer and Director of Undergraduate Studies (DUS)

If the first step does not lead to a resolution, the student should then write a letter of complaint and append to it all the written work for the course. The letter of complaint should include: 1. specific evidence that the grade was given in error or was arbitrarily determined, 2. a summary of the student's initial consultation with the course instructor, and 3. a summary of aspects of the case that remain in dispute. If the grievance pertains to English 124 or English 125, these

materials should be submitted to the EDWP Director, who serves as grade grievance officer. For all other courses, the materials should be submitted to the Director of Undergraduate Studies, who will forward them to the English Department grade grievance officer. Grievances must be filed by end of the fifth week of classes in the first full term following the term in which the disputed grade was issued.

The grade grievance officer will forward the student's letter to the instructor and invite the instructor to explain in writing how the final grade was determined and respond to the specific claims made by the student. Any such communication will be made available to the student.

If the grievance cannot be resolved in conversations between the instructor, the student, and the grade grievance officer, the case goes forward to the Director of Undergraduate Studies (DUS) in the English department. All pertinent written documents will be forwarded to the DUS, and the DUS will also meet separately with the officer, the instructor, and the student to obtain their accounts of the case. The DUS will determine whether sufficient evidence exists to convene the Department's Grade Grievance Committee to review the case. If the DUS determines that there is insufficient evidence for the grade grievance, the matter is considered closed, and the original grade stands.

III. Review of the Case by the Grade Grievance Committee

Once it has been determined that a Departmental Grade Grievance Committee will review the case, the committee will be empaneled and a date set on which the committee will meet. Committee members will be provided with copies of the student's complaint and the instructor's reply; the student and the instructor may also submit a written response to these materials in advance of the meeting.

After the meeting at which they review the case, the Grade Grievance Committee will have ten University business days to determine its recommendation and submit a written report to the DUS. If the Grade Grievance Committee decides that a grade change is not warranted, the 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 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 DUS indicating whether or not he/she will abide by the Grade Grievance Committee's recommendation. If the instructor agrees to a grade change, the DUS will inform the student in writing of the instructor's decision, and the student's final course grade will be changed. The matter is considered closed.

If an instructor does not accept the Grade Grievance Committee's recommendation to change the final grade, the original grade will stand. By College policy, 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 DUS will provide to the student written notification of the committee's recommendation and the instructor's decision. The matter is considered closed; there is no appeal beyond the Department.

If a grade change is permitted, a Supplemental Grade Report must be submitted by the instructor so the student can have the grade reported on his/her academic record.

For further information please contact the Undergraduate Administrator at 734-764-6330.

English Language Institute

Updated and Approved March 2012

Students who believe they have received an unfair grade in an English Language Institute (ELI) course are encouraged to discuss the issue with their instructor in an effort to resolve the issue. Such discussion should take place as soon as practical following receipt of the grade. Discussion between the student and the instructor regarding a grade does not necessarily constitute a step in the grievance process. The student and the instructor may reach a resolution that is acceptable to them both without launching a formal grievance process. If such mutually satisfactory resolution is not reached, students have the right to file a grievance and should follow the procedures described below.

1. The student must first contact the instructor who assigned the grade and explain the particular grievance within two weeks of the beginning of the term following the semester when the grade was given. The instructor should respond to the student within 2 weeks of receiving the student's complaint and schedule a meeting with the student if necessary. If the grade disagreement is not resolved, the student may file a formal grievance.
2. To grieve a grade, the student must file a written appeal and submit it to the ELI Grade Grievance Committee, addressed to the ELI Director. This letter must be received no later than two weeks following the instructor's response in Step 1. If the ELI Director is the instructor in question, the letter should be addressed to the Director of the Instructional Division. The student must clearly explain the nature of the dispute and attach copies of all relevant graded materials. The instructor will receive a copy of the letter and will have the opportunity to respond.

The ELI Grade Grievance Committee will consider the appeal and the instructor's response at the next meeting after the letter is received. The student and instructor have the option of appearing before the Committee and may appear without the other being present if they so request.

1. If the Committee judges the original grade to have been reasonable, a statement shall be drafted stating that an appeal had been made and outlining the reasons for the rejection of the appeal.
2. If the Committee recommends that the grade be changed, a document will be drafted stating the reasons for the recommendation and specifying the recommended new grade. The Committee will then determine whether the instructor is willing to change the grade, or if some alternative action is acceptable. If these efforts fail, the Committee will state its findings in a letter that is placed in the ELI's grievance file, and in the instructor's and student's files. The student will also receive a copy of the letter.
3. The Committee will notify the student in writing of the final decision. At this point, there shall be no further hearing of the matter within the English Language Institute.

The ELI wishes to see a demonstrably unfair grade changed and provides through review by a faculty committee, a procedure for grade review. Nevertheless, the ELI believes that the instructor of the course is the most qualified person to assess the student's work. The review committee does not share the instructor's familiarity with the subject matter of the course, nor

does it know the range of excellence of students in the class. While the review committee may recommend that the instructor change the grade, our procedures conform to the traditional policy that confers responsibility for assignment of a grade on the instructor of the course.

Grievances must be based on substantive grounds, and the burden of proof in challenging a grade rests on the student. Normally a student must provide evidence that the grade is not consistent with the stated grading procedure, fails to give full consideration to all graded material, or otherwise deviates from previously stated standards. Because there is some imprecision in grading, the difference between an A and an A-, for instance, should not become a matter for grievance. In cases where there is reasonable doubt, the grade assigned by the instructor will be maintained.

Earth and Environmental Sciences Department

Updated and Approved March 2012

Preamble

Within the College of Literature, Science, and the Arts, instructors are expected to set fair and consistent grading procedures for their respective courses. The key to implementing fair grading procedures in courses across the College is that individual instructors adhere to grading rubrics that are applied evenly and consistently to all students within a respective course. If the grading rubric is used consistently for each student, then the final grade is assumed to be the correct grade. Nevertheless, students can inquire about a grade and subsequently initiate a grade grievance when they think that the grade was unfairly given. The procedure discussed in this document is for courses in the Earth and Environmental Sciences Department (EARTH).

Consultation with Instructor

The first step in inquiring about the accuracy of a final grade should be directed to the lead instructor of the course. This initial inquiry should take place within the first fifteen University business days of the first full term following the term in which the disputed grade was issued. If, after this inquiry, the student is not satisfied with the instructor's response, the student may choose to initiate a formal grade grievance.

Formal Complaint to Associate Chair of Undergraduate Affairs

To initiate a formal grade grievance, the student should contact the Associate Chair for Curriculum before the end of the fifth week of classes in the first full term following the term in which the disputed grade was issued. If the Associate Chair is the instructor of the course in which the disputed grade was issued, the Chair of the Department will take his/her role. To initiate the formal grade grievance process, the student must convey in writing the basis for the complaint, with specific evidence in support of the argument that the grade either was given in error or was unfairly determined. This formal complaint also should summarize the outcome of the initial inquiry to the course instructor, indicating what aspects are in dispute. Upon receipt of the written complaint, the Associate Chair will ask the instructor to provide a written summary restating how the final grade was determined and to respond to the specific claims made by the student.

After receiving this information from both the student and the instructor, the Associate Chair will then determine if sufficient evidence exists to convene the Department's Grade Grievance Committee. If the Associate Chair determines that there is insufficient evidence for the grade grievance, the matter is considered closed, and the original grade stands.

If the Associate Chair determines that the grade grievance should proceed, a date for a formal hearing with the Grade Grievance Committee will be set.

Grade Grievance Hearing

Once it has been determined that a formal hearing will be held, the Associate Chair will empanel the appropriate Departmental Grade Grievance Committee. Both the student filing the grade grievance and the respective instructor 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 his or her complaint; the instructor will then be asked to present his or her explanation for how grades were determined. Following an open period of questions to all parties, i.e., the student, the instructor and the Grade Grievance committee members, the formal hearing will be adjourned.

Grade Grievance Committee's Recommendation

The Grade Grievance Committee will then have ten University business days to determine its recommendation and submit a written report to the Associate Chair. If the Grade Grievance Committee decides that a grade change is not warranted, the Associate Chair 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 Associate Chair 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 Associate Chair indicating whether or not he/she will abide by the Grade Grievance Committee's recommendation. If the instructor agrees to a grade change, the Associate Chair 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 an instructor does not accept the Grade Grievance Committee's recommendation to change the final grade, the original grade will stand. By College policy, 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 Associate Chair will convey in writing this decision to the student. The matter is considered closed. There is no appeal beyond the Department.

Film, Television, and Media Department

Updated and Approved September 2012

Preamble

Within the College of Literature, Science, and the Arts, instructors are expected to set fair and consistent grading procedures for their respective courses. The key to implementing fair grading procedures in courses across the College is that individual instructors adhere to grading rubrics that are applied evenly and consistently to all students within a respective course. If the grading rubric is used consistently for each student, then the final grade is assumed to be the correct grade. Nevertheless, students can inquire about a grade and subsequently initiate a grade grievance when they think that the grade was unfairly given.

Consultation with Instructor

The first step in inquiring about the accuracy of a final grade should be directed to the lead instructor of the course. This initial inquiry should take place within the first fifteen University business days of the first full term following the term in which the disputed grade was issued. If, after this inquiry, the student is not satisfied with the instructor's response, the student may choose to initiate a formal grade grievance. To initiate a formal grade grievance within the Department of Film, Television, and Media, the student should contact the department's Associate Chair before the end of the fifth week of classes in the first full term following the term in which the disputed grade was issued.

Formal complaint to Associate Chair

To initiate the formal grade grievance process, the student must convey in writing the basis for the complaint, with specific evidence in support of the argument that the grade either was given in error or was unfairly determined. This formal complaint also should summarize the outcome of the initial inquiry to the course instructor, indicating what aspects are in dispute. Upon receipt of the written complaint, the Associate Chair will ask the instructor to provide a written summary restating how the final grade was determined and to respond to the specific claims made by the student.

After receiving this information from both the student and the instructor, the Associate Chair will then determine if sufficient evidence exists to convene the department's Grade Grievance Committee. If the Associate Chair determines that there is insufficient evidence for the grade grievance, the matter is considered closed, and the original grade stands.

If the Associate Chair determines that the grade grievance should proceed, a date for a formal hearing with the Grade Grievance Committee will be set.

Grade Grievance Hearing

Once it has been determined that a formal hearing will be held, the Associate Chair will empanel the appropriate Departmental Grade Grievance Committee. Both the student filing the grade grievance and the respective instructor 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 his or her complaint; the instructor will then be asked to present his or her explanation for how grades were determined. Following an open period of questions to all parties, i.e., the student, the instructor and the Grade Grievance committee members, the formal hearing will be adjourned.

Grade Grievance Committee's Recommendation

The Grade Grievance Committee will then have ten University business days to determine its recommendation and submit a written report to the Associate Chair.

If the Grade Grievance Committee decides that a grade change is not warranted, the Associate Chair 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 Associate Chair 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 Associate Chair indicating whether or not he/she will abide by the Grade Grievance Committee's recommendation. If the instructor agrees to a grade change, the Associate Chair 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 an instructor does not accept the Grade Grievance Committee's recommendation to change the final grade, the original grade will stand. By College policy, 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 Associate Chair will convey in writing this decision to the student. The matter is considered closed. There is no appeal beyond the Department.

Geography Course

Updated and Approved August 2012

Within the College of Literature, Science, and the Arts, instructors are expected to set fair and consistent grading procedures for their respective courses. The key to implementing fair grading procedures in courses across the College is that individual instructors adhere to grading rubrics that are applied evenly and consistently to all students within a respective course. If the grading rubric is used consistently for each student, then the final grade is assumed to be the correct grade. Nevertheless, students can inquire about a grade and subsequently initiate a grade grievance when they think that the grade was unfairly given.

Geography is a unit of the Office of the LSA Associate Dean for Undergraduate Education. Its grade grievance procedures fall under the University Courses Division's policy. Students who want to inquire about the accuracy of their final grade in UC courses should pursue the following steps:

Consultation with Instructor

The first step in inquiring about the accuracy of a final grade should be directed to the lead instructor of the course. This initial inquiry should take place within the first fifteen University business days of the first full term following the term in which the disputed grade was issued. If, after this inquiry, the student is not satisfied with the instructor's response, the student may choose to initiate a formal grade grievance. To initiate a formal grade grievance, the student

should contact the Assistant Dean for Undergraduate Education before the end of the fifth week of classes in the first full term following the term in which the disputed grade was issued.

Formal Complaint to the Assistant Dean for Undergraduate Education

To initiate the formal grade grievance process, the student must convey in writing the basis for the complaint, with specific evidence in support of the argument that the grade either was given in error or was unfairly determined. This formal complaint also should summarize the outcome of the initial inquiry to the course instructor, indicating what aspects are in dispute. Upon receipt of the written complaint, the Assistant Dean will ask the instructor to provide a written summary restating how the final grade was determined and to respond to the specific claims made by the student.

After receiving this information from both the student and the instructor, the Assistant Dean will then determine if sufficient evidence exists to convene the UC Division's Grade Grievance Committee. If the Assistant Dean determines that there is insufficient evidence for the grade grievance, the matter is considered closed, and the original grade stands.

If the Assistant Dean determines that the grade grievance should proceed, a date for a formal hearing with the Grade Grievance Committee will be set.

Grade Grievance Hearing

Once it has been determined that a formal hearing will be held, the Assistant Dean will empanel the appropriate University Courses Division Grade Grievance Committee. Both the student filing the grade grievance and the respective instructor 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 his or her complaint; the instructor will then be asked to present his or her explanation for how grades were determined. Following an open period of questions to all parties, i.e., the student, the instructor and the Grade Grievance committee members, the formal hearing will be adjourned.

Grade Grievance Committee's Recommendation

The Grade Grievance Committee will then have ten University business days to determine its recommendation and submit a written report to the Assistant Dean.

If the Grade Grievance Committee decides that a grade change is not warranted, the Assistant Dean 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 Assistant Dean 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 Assistant Dean indicating whether or not he/she will abide by the Grade Grievance Committee's recommendation. If the instructor agrees to a grade change, the Assistant Dean 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 an instructor does not accept the Grade Grievance Committee's recommendation to change the final grade, the original grade will stand. By College policy, 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 Assistant Dean will convey in writing this decision to the student. The matter is considered closed. There is no appeal beyond the University Courses Division.

Germanic Languages and Literatures Department

Updated and Approved February 2012

The faculty of the Department of Germanic Languages and Literatures recognizes that instances may arise where a student feels that his or her academic performance has been unfairly or improperly graded due to prejudice, capricious changes in course requirements, inconsistency in the criteria applied to judge the student's work, or clerical error. Although an unfair or improper grade should certainly be changed, the following principles must be understood: (1) a grade given by a faculty member can be changed only by that faculty member (Faculty Code B 5.07); (2) a grade given by a Graduate Student Instructor (GSI) can only be changed by that GSI, or by the faculty supervisor of that course; (3) these grievance procedures are intended to result in a recommendation to change or not to change a grade, and will not supersede the faculty member's judgment of a student's performance.

If a student believes that he or she has received an unfair or improper grade for a course in this department, these steps should be taken:

1. Within two weeks of the subsequent term of receiving the grade in question, the student should confer with the instructor and attempt to resolve the issue. The student will be expected to write a thorough rationale (calculation) for what s/he expected his/her grade to be and submit this calculation to the instructor. If the student is not satisfied with the outcome of this meeting, the instructor or supervisor must make available to the student a copy of these procedures, in order that the student may proceed with the grievance properly and promptly.
2. If the first step does not produce a solution that is agreeable to the student, and if the instructor is a German 101-232 Graduate Student Instructor or Lecturer, the student is to submit a written appeal to the language program coordinator. The student must initiate this appeal no later than ten days after the meeting with the instructor. If this does not produce a solution that is agreeable to the student, then the language coordinator, student, and instructor will involve the Chair of the Department. The student is to submit to the department's Chair a written appeal, citing all relevant factors, and attach papers, homework assignments, tests, and other supporting evidence. The student must initiate this appeal (to the Chair) no later than one week after the meeting with the language program coordinator. If the issue is not resolved at this point, the process continues with step (4) below.
3. For a student in a class other than German 101-232, or a course taught by a Visiting, Assistant, Associate, or Full Professor, the student is to submit to the Chair of the Department a written appeal, citing all relevant factors, and attach papers, homework assignments, tests, and other supporting evidence. The student must initiate this appeal no later than ten days after the meeting with the instructor. If the issue is not resolved at this point, the process continues with step (4) below.
4. If the Chair, instructor, and student cannot produce a solution, the Chair of the Department will appoint a Grievance Committee to review the appeal. The committee will consist of the Department Chair, one additional professor, one department advisor, and a student from the

Student Advisory Committee.

5. The Chair of the Department will ask the instructor to respond to the appeal in writing; this response should be submitted no later than two weeks after the student's initial appeal to the Chair. The Chair will distribute copies of this response, of the student's letter of appeal, and of all other relevant documents, to the members of the Grievance Committee; the Department's Chair will also make a copy of the instructor's response available to the student.
6. Within two weeks after the committee has been appointed, the committee will conduct a hearing at which the instructor, the course supervisor (if any), and the student must be present, and at which they may present their cases orally. The time and place of the hearing will be announced at least one week in advance. If the instructor is off campus, the Chair of the Department will solicit a letter from him/her in which the instructor's position is set forth.
7. Immediately after the hearing, the committee will consider the matter and arrive at its recommendation. The recommendation will be delivered in writing to the instructor, with copies to the course supervisor (if any), and to the student. The committee may recommend:
 1. that the grade be changed;
 2. that the grade not be changed; or
 3. that some other solution be sought, e.g., additional time to write a paper.
 4. If the instructor refuses to follow a recommendation to change the grade, then the grade will stand. The student, however, may request that the Chair of the Department provide him or her with a letter recording the decision of the Grievance Committee, and the faculty member's refusal to follow its recommendation. The student may request to have a copy of the letter retained by the Office of the Assistant Dean.

History Department

Updated and Approved August 2012

Instructors in the History Department are expected to set fair and consistent grading procedures for their respective courses. If the grading rubric is used consistently for each student, then the final grade is assumed to be the correct grade. However, students can inquire about a grade and subsequently initiate a grade grievance when they think that the grade was unfairly given.

To appeal any grade (or other course-related matter), students must follow these steps:

I. Consultation with the Instructor. The first step in inquiring about the accuracy of a final grade or any other course-related matter should be directed to the lead instructor of the course. This initial inquiry should take place within the first fifteen University business days of the first full term following the term in which the disputed grade was issued. In general, the student should communicate the concerns to the instructor in writing and then schedule an appointment if necessary. Many instructors spell out specific procedures for grade appeals in their syllabi, which should be followed as long as they do not conflict with this Departmental policy.

II. Filing a Grievance. If, after this inquiry, the student is not satisfied with the instructor's response, the student may choose to initiate a formal grade grievance. To start this process, the student should contact the Director of Undergraduate Studies (if an undergraduate) or the Director of Graduate Studies (if a doctoral student) before the end of the fifth week of classes in the first full term following the term in which the disputed grade was issued.

To initiate the formal grade grievance process, the student must convey in writing the basis for

the complaint, with specific evidence in support of the argument that the grade either was given in error or was unfairly determined. This formal complaint also should summarize the outcome of the initial inquiry to the course instructor, indicating what aspects are in dispute. Upon receipt of the written complaint, the DUGS/DGS will ask the instructor to provide a written summary restating how the final grade was determined and to respond to the specific claims made by the student.

After receiving this information from both the student and the instructor, the DUGS/DGS will then determine if sufficient evidence exists to convene the Department's Grade Grievance Board. The DUGS/DGS should also consult with the Associate Chair about the case.

If the DUGS/DGS determine that there is insufficient evidence for the grade grievance, the matter is considered closed, and the original grade stands. If the DUGS/DGS determines that the grade grievance should proceed, a date for a formal hearing with the grievance board will be set. The DUGS/DGS should communicate this decision in writing to the student, the instructor, and the Associate Chair.

III. Grievance Board Hearing. In the event of a formal hearing, the DUGS/DGS will appoint a 4-person grievance board from among the members of the relevant committee. In a case involving an undergraduate student, the grievance board will consist of two faculty members and the two undergraduate members of the Undergraduate Committee. In a case involving a graduate student, the grievance board will consist of two faculty members of the Graduate Committee and two graduate students executives from GOSH (Graduate Organization of Students in History). The grievance board will not include the DUGS, DGS, Associate Chair, or anyone else with a potential conflict of interest in the case.

The grievance board will receive the written student complaint and the instructor's summary in advance of the formal hearing, and both the student and the instructor will also receive these records as well. During the formal hearing, the student will be asked to first present the basis of his or her complaint; the instructor will then be asked to present his or her explanation for how grades were determined. Following an open period of questions to all parties, i.e., the student, the instructor and the Grade Grievance committee members, the formal hearing will be adjourned.

IV. Grievance Board Recommendation. The grievance board will then have ten University business days to determine its recommendation and submit a written report to the DUGS/DGS.

If the grievance board decides that a grade change is not warranted, the DUGS/DGS will convey this in writing to the student and the instructor. The original grade will stand, and the matter is considered closed.

If the grievance board recommends a grade change, the DUGS/DGS 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 DUGS/DGS indicating whether or not he/she will abide by the grievance board's recommendation. If the instructor agrees to a grade change, the DUGS/DGS will inform the student in writing of the instructor's decision and the student's final course grade will be changed. The matter is considered closed.

If an instructor does not accept the grievance board's recommendation to change the final grade, the original grade will stand. By College policy, 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 DUGS/DGS will convey this decision in writing to the student. The matter is considered closed.

There is no grade appeal beyond the Department. If, however, the student or the DUGS/DGS has concerns about the unfolding of the process itself, rather than the specific grade, these should be communicated to the Associate Chair as the representative of the Executive Committee.

History of Art Department

Updated and Approved July 2012

I. Preamble

Within the College of Literature, Science, and the Arts, instructors are expected to set fair and consistent grading procedures for their respective courses. The key to implementing fair grading procedures in courses across the College is that individual instructors adhere to grading rubrics that are applied evenly and consistently to all students within a respective course. If the grading rubric is used consistently for each student, then the final grade is assumed to be the correct grade. Nevertheless, students can inquire about a grade and subsequently initiate a grade grievance when they think that the grade was unfairly given.

II. Consultation with Instructor

The first step in inquiring about the accuracy of a final grade should be directed to the lead instructor of the course. This initial inquiry should take place within the first fifteen University business days of the first full term following the term in which the disputed grade was issued. If, after this inquiry, the student is not satisfied with the instructor's response, the student may choose to initiate a formal grade grievance. To initiate a formal grade grievance, the student should contact the Director of Undergraduate Studies (DUS) of the Department of the History of Art before the end of the fifth week of classes in the first full term following the term in which the disputed grade was issued.

III. Formal Complaint to Director of Undergraduate Studies (DUS)

To initiate the formal grade grievance process, the student must convey in writing the basis for the complaint, with specific evidence in support of the argument that the grade either was given in error or was unfairly determined. This formal complaint also should summarize the outcome of the initial inquiry to the course instructor, indicating what aspects are in dispute. Upon receipt of the written complaint, the DUS will ask the instructor to provide a written summary restating how the final grade was determined and to respond to the specific claims made by the student.

After receiving this information from both the student and the instructor, the DUS will then determine if sufficient evidence exists to convene the Department's Grade Grievance Committee. If the DUS determines that there is insufficient evidence for the grade grievance, the

matter is considered closed, and the original grade stands.

If the DUS determines that the grade grievance should proceed, a date for a formal hearing with the Grade Grievance Committee will be set.

IV. Grade Grievance Hearing

Once it has been determined that a formal hearing will be held, the DUS will empanel the appropriate Departmental Grade Grievance Committee. The Grade Grievance Committee will consist of the DUS, at least one other faculty member (typically, a member of the Undergraduate Committee) and at least one undergraduate (to be selected by the DUS). Both the student filing the grade grievance and the respective instructor 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 his or her complaint; the instructor will then be asked to present his or her explanation for how grades were determined. Following an open period of questions to all parties, i.e., the student, the instructor and the Grade Grievance committee members, the formal hearing will be adjourned.

V. Grade Grievance Committee's Recommendation

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

If the Grade Grievance Committee decides that a grade change is not warranted, the 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 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 DUS indicating whether or not he/she will abide by the Grade Grievance Committee's recommendation. If the instructor agrees to a grade change, the 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 an instructor does not accept the Grade Grievance Committee's recommendation to change the final grade, the original grade will stand. By College policy, 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 DUS will convey in writing this decision to the student. The matter is considered closed. There is no appeal beyond the Department.

[Honors Program](#)

Updated and Approved May 2012

I. Preamble

Within the College of Literature, Science, and the Arts, instructors are expected to set fair and

consistent grading procedures for their respective courses. The key to implementing fair grading procedures in courses across the College is that individual instructors adhere to grading rubrics that are applied evenly and consistently to all students within a respective course. If the grading rubric is used consistently for each student, then the final grade is assumed to be the correct grade. Nevertheless, students can inquire about a grade and subsequently initiate a grade grievance when they think that the grade was unfairly given.

II. Consultation with Instructor

The first step in inquiring about the accuracy of a final grade should be directed to the lead instructor of the course. This initial inquiry should take place within the first fifteen University business days of the first full term (Fall or Winter) following the term in which the disputed grade was issued. If, after this inquiry, the student is not satisfied with the instructor's response, the student may choose to initiate a formal grade grievance. To initiate a formal grade grievance, the student should contact the Associate Director or the Director of the home department of the course in question before the end of the fifth week of classes in the first full term following the term in which the disputed grade was issued.

III. Formal Complaint to Associate Director or Director

To initiate the formal grade grievance process, the student must convey in writing the basis for the complaint, with specific evidence in support of the argument that the grade either was given in error or was unfairly determined. This formal complaint also should summarize the outcome of the initial inquiry to the course instructor, indicating what aspects are in dispute. Upon receipt of the written complaint, the Associate Director or Director will ask the instructor to provide a written summary restating how the final grade was determined and to respond to the specific claims made by the student.

After receiving this information from both the student and the instructor, the Associate Director or Director will then determine if sufficient evidence exists to convene the Honors Academic Board (HAB). If the Associate Director or Director determines that there is insufficient evidence for the grade grievance, the matter is considered closed, and the original grade stands.

If the Associate Director or Director determines that the grade grievance should proceed, a date for a formal hearing with the Honors Academic Board will be set.

IV. Grade Grievance Hearing

Once it has been determined that a formal hearing will be held, the Associate Director or Director will empanel the Honors Academic Board. Both the student filing the grade grievance and the respective instructor 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 his or her complaint; the instructor will then be asked to present his or her explanation for how grades were determined. Following an open period of questions to all parties, i.e., the student, the instructor and the Honors Academic Board members, the formal hearing will be adjourned.

V. Honors Academic Board's Recommendation

The HAB will then have ten University business days to determine its recommendation and submit a written report to the Associate Director or Director.

If the HAB decides that a grade change is not warranted, the Associate Director or Director will convey this in writing to the student and the instructor. The original grade will stand and the matter is considered closed.

If the HAB recommends a grade change, the Associate Director or Director 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 Associate Director or Director indicating whether or not he/she will abide by the HAB's recommendation. If the instructor agrees to a grade change, the Associate Director or Director 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 an instructor does not accept the HAB's recommendation to change the final grade, the original grade will stand. By College policy, 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 Associate Director or Director will convey in writing this decision to the student. The matter is considered closed. There is no appeal beyond the Honors Program.

International Studies Programs

Normally students accept an instructor's evaluation of their work. Nevertheless, there are instances when a student feels that his or her academic performance has been unfairly or improperly graded. Typical complaints include prejudice, capricious changes in the course requirements, and lack of uniformity in judgment applied. When these charges arise, discussion and arbitration can bring out the facts to ascertain if there is a wrong that should be righted. However, such hearings are not intended to dispute the instructor's right to make his or her own evaluation of a student's work.

GROUNDINGS FOR A GRADE CHANGE

For a change in grade to be recommended, a student must make the case that the grade originally given was unjustly awarded. Dissatisfaction with a grade alone is not sufficient for an appeal.

Grade appeal procedures are available only for review of alleged capricious grading, and not for review of the judgment of an instructor in assessing the quality of a student's work. Capricious grading, as that term is used herein, constitute any of the following: (1) the assignment of a grade to a particular student on some basis other than performance in the course; (2) the assignment of a grade to a particular student by resorting to more exacting or demanding standards than were applied to other students in that course; (3) the assignment of a grade by a substantial departure from the instructor's previously announced standards. Correction of clerical errors does not require grade appeal procedures; the instructor simply fills out a Supplementary Grade Report.

We recognize that an unjust grade should be changed, and that students need and deserve a

means of redress. The establishment of a grade appeal procedure provides this means. However, the committee that is called upon to hear an appeal by a student must acknowledge that it cannot possibly share the instructor's familiarity with the subject matter of the course or with the specific material used in it. The committee must also acknowledge that there is an inevitable minimum of imprecision in grading, and that the difference between a C and a B-, for instance, is hardly one that can, or should, become a matter for detailed litigation. The committee, in judging a single case, cannot know the range of excellence of the students in the class, and it should be cautious about raising the grade of one individual. Otherwise, it may thereby diminish the apparent achievements of other students who may have done better and whose original grade may have been higher. A grievance based on the argument that one instructor's grading standards are stricter than those of others will not be pursued. For all these reasons, students contemplating appeals should be warned that the review committee will not, and must not, place their judgment over that of the instructor involved except in clear cases. The burden of proof in challenging a grade once given must rest on the student. In all cases of a reasonable doubt, the grade once given will be approved. The department's obligation to handle a grade complaint is limited to a maximum of one term after the course in question.

ADJUDICATION PROCESS

1. Within two weeks after the start of the following semester, the student should convey his or her concerns about the grade in writing to the instructor or professor who assigned the grade and request a meeting to discuss the matter. At this meeting, the instructor/professor should explain the basis upon which the grade was conferred and give the student an opportunity to point out any apparent errors or misjudgments. If the instructor conferring the grade is a Graduate Student Instructor (GSI), the GSI should be consulted first. If agreement is not reached with the GSI, the student should then contact the faculty member in charge of the course. If the instructor/professor is not available to respond to the student's concerns, then the student should proceed directly to step 2. It is expected that Step 1 will be completed by January 30th of the following year for a grade given in fall term or by September 30th for a grade given in spring, summer, or winter term. Only in extenuating circumstances will a grievance beyond this time frame be heard.
2. In the event that the conference with the instructor does not resolve the difficulty, the student should discuss the problem with the Director of the IS program, and should submit to him/her a letter detailing the nature of the complaint. The Director of the IS Program shall solicit a response from the instructor and shall then determine whether any basis for a committee hearing exists. If the Director of the IS Program is a party to the grievance, his/her role shall be assumed by the Director of the International Institute.
3. If the Director of the IS Program concludes that there is no basis for a committee hearing, he/she will inform the student. If the student is not satisfied with the explanation, he/she may still insist upon a committee hearing.
4. If the basis for a formal hearing is found to exist in the review described in item 2, or if the student insists upon a review in spite of the advice of the Director of the IS Program, the grievance shall be referred to an ad hoc review committee.

5. The review committee shall consist of three persons to be appointed by the Director of the IS Program (or the Director of the International Institute, if the Director of the IS Program is a party to the grievance or if he/she has decided there is no basis for a formal hearing): two faculty members and one student. The student member of the review committee will be an undergraduate if the grievant is an undergraduate or a graduate student if the grievant is a graduate student.
6. The review committee will submit a written summary of its findings and recommendations to the instructor and the Director of the International Studies Program.
7. If the review committee concludes that the assigned grade should stand, the Director of the IS Program (or the Director of the International Institute) will inform the student in writing that the grade will not be changed, and that no further appeal within the International Studies Program is possible.
8. If the review committee concludes that the instructor did not act fairly, properly or judiciously, the Director of the IS Program shall attempt to persuade the instructor to follow the recommendations of the committee.
9. If the instructor refuses to change a grade in spite of the recommendations of the review committee and the urgings of the Director of the IS Program, the instructor shall provide the student and the Director of the IS Program with a written explanation for his/her refusal to change the grade, and the Director of the IS Program shall provide the student with a written statement summarizing the procedures followed in processing the appeal, noting the recommendations of the review committee, adding his/her own evaluation of the review committee's findings, and noting the refusal of the instructor to change the grade. There is no appeal beyond the International Studies Program.
10. These procedures describe the full appeal mechanism available in the International Studies Program to deal with grade grievances. When these procedures have run their course, no further appeal within the Program is possible.

The only exception we envisage would be when the instructor is no longer at the University of Michigan. In that case a student may present a grievance to the committee without first discussing the conflict with the instructor. The committee will try to contact the instructor to elicit a response and arrive at a recommendation. If this attempt is unsuccessful, the Director of the International Studies Program may approve a grade change in consultation with the committee.

Judaic Studies Program

Updated and Approved March 2012

Preamble

The Program upholds the principle that the instructor in a course is always in the best position to determine the quality of students' work. The Program in Judaic Studies also has confidence in the

qualifications and good judgment of its faculty. The key to implementing fair grading procedures in courses across the Program is that individual instructors adhere to grading rubrics that are applied evenly and consistently to all students within a particular course. Where it can be proven that a clerical error, a procedural fault, or a capricious or biased appraisal has resulted in the awarding of an unfair grade, the Program will do everything in its power to correct the error. It must be understood, however, that only the instructor of a course can determine the substantive value of a student's performance in that course and only the instructor can change the grade. Furthermore, while the Program wishes to see demonstrably unfair grades rectified, it will not automatically invoke the full procedure described below for every grievance. For example, a grievance based on the argument that one instructor's grading standards are stricter than those of others will normally not be pursued. Nor will minor imprecision in grading, such as between a B- and B, normally be considered an appropriate grievance.

Grievance Procedure

1. A student who feels that he or she has been unfairly graded should first consult with the instructor of the course, in an effort to resolve the disagreement. This initial inquiry should take place within the first fifteen University business days of the first full term following the term in which the disputed grade was issued.
2. If the student is not satisfied by the explanation(s) offered by the instructor of the course, the student may submit to the Director of the Program a written appeal, citing the factors which bear explicitly upon the specific grievance. The grievance takes the form of a written statement, accompanied by relevant graded materials. The statement should detail the disagreements that remain after the discussion between the student and the instructor required above. These materials and the appeal should be submitted before the end of the fifth week of classes in the first full term following the term in which the disputed grade was issued. Exceptions to this rule will be allowed only in extraordinary circumstances
3. Upon receipt of these materials, the Director of the Program will appoint an ad hoc committee to review the appeal and will name its Chair. This committee will consist of the undergraduate or graduate advisor (depending upon the status of the student), one additional faculty member and one student chosen from the suitable peer group (undergraduate majors or graduate students).
4. The Director of the Program will ask the instructor involved to respond to the appeal in writing no later than three weeks after the filing of the appeal with the Director. This response, together with the appeal and all relevant materials will be put into the hands of the committee.
5. The committee will meet no later than one week after receiving all the aforementioned materials. Both the student filing the grade grievance and the respective instructor will be provided with copies of the written student complaint and the instructor's summary in advance of the formal hearing.
6. During the formal hearing, the student will be asked to first present the basis of his or her complaint; if the instructor chooses to attend he or she will be asked to present his or her explanation for how grades were determined. Following an open period of questions to all parties, i.e., the student, the instructor and the Grade Grievance committee members, the formal hearing will be adjourned.

Committee's Recommendation

1. The committee will then have ten University business days for deliberation. If it is the consensus of the committee that the grade awarded was unfair, the committee will inform the instructor of this opinion and suggest that the grade be changed. It will be possible to suggest a lower grade as well as a higher one. If the consensus is that the grade should not be changed, the committee will

convey this in writing to the student and the instructor. The appeal procedure will terminate at this point.

2. If the instructor involved is asked by the committee to change the grade and declines to do so, the grade will stand. However, in this case the Director of the Program or a representative will place a letter recording the decision of the grievance committee and the refusal of the faculty member to change the grade in the student's permanent academic record, unless the student requests this not be done.
3. In the event that the instructor is no longer at the University of Michigan, a student may present a grievance to the Director of the program without first discussing the conflict with the instructor. The Director and the committee will make every effort to contact the instructor to elicit a response before arriving at a recommendation.
4. If the Program declines to appoint a hearing committee, or if the instructor refuses to follow the Committee's decision, the Director of the program will prepare a letter of recommendation, which the student could then opt to have retained by the LSA Office of Student Academic Affairs.

Linguistics Department

Updated October 2013

Approved August 2014

Preamble

Within the College of Literature, Science, and the Arts, instructors are expected to set fair and consistent grading procedures for their respective courses. The key to implementing fair grading procedures in courses across the College is that individual instructors adhere to grading rubrics that are applied evenly and consistently to all students within a respective course. If the grading rubric is used consistently for each student, then the final grade is assumed to be the correct grade. Nevertheless, students can inquire about a grade and subsequently initiate a grade grievance when they think that the grade was unfairly given.

1) Consultation with Instructor

The first step in inquiring about the accuracy of a final grade should be directed to the lead instructor of the course. This initial inquiry should take place within the first fifteen University business days of the first full term following the term in which the disputed grade was issued. If, after this inquiry, the student is not satisfied with the instructor's response, the student may choose to initiate a formal grade grievance. To initiate a formal grade grievance for a course for which Linguistics is the home department, the student should contact the Linguistics Undergraduate Chair before the end of the fifth week of classes in the first full term following the term in which the disputed grade was issued.

2) Formal Complaint to the Linguistics Undergraduate Chair

To initiate the formal grade grievance process, the student must convey in writing the basis for the complaint, with specific evidence in support of the argument that the grade either was given in error or was unfairly determined. This formal complaint also should summarize the outcome

of the initial inquiry to the course instructor, indicating what aspects are in dispute. Upon receipt of the written complaint, the Undergraduate Chair will ask the instructor to provide a written summary restating how the final grade was determined and to respond to the specific claims made by the student.

After receiving this information from both the student and the instructor, the Undergraduate Chair will then determine if sufficient evidence exists to convene the Department's Executive Committee. If the Undergraduate Chair determines that there is insufficient evidence for the grade grievance, the matter is considered closed, and the original grade stands.

If the Undergraduate Chair determines that the grade grievance should proceed, a date for a formal hearing with the Linguistics Department Executive Committee will be set.

3) Grade Grievance Hearing

In advance of the formal hearing, both the student filing the grade grievance and the respective instructor 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 his or her complaint; the instructor will then be asked to present his or her explanation for how grades were determined. Following an open period of questions to all parties, i.e., the student, the instructor and the Executive Committee members, the formal hearing will be adjourned.

4) Executive Committee's Recommendation

The Executive Committee will then have ten University business days to determine its recommendation and submit a written report to the Undergraduate Chair.

If the Executive Committee decides that a grade change is not warranted, the Undergraduate Chair 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 Undergraduate Chair 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 Undergraduate Chair indicating whether or not he/she will abide by the Executive Committee's recommendation. If the instructor agrees to a grade change, the Undergraduate Chair will inform the student, in writing, of the instructor's decision and the student's final course grade will be changed. The matter is considered closed.

If an instructor does not accept the Executive Committee's recommendation to change the final grade, the original grade will stand. By College policy, 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 Undergraduate Chair will convey in writing this decision to the student. The matter is considered closed. There is no appeal beyond the Department.

Grade Grievance Procedures for the Department of Mathematics (August 2016)

The Department upholds the principle that the instructor in a course is always in the best position to determine the quality of students' work. The Department of Mathematics also has confidence in the qualifications and good judgment of its faculty. Nonetheless, where it can be proven that a clerical error, a procedural fault, or a capricious or biased appraisal has resulted in the awarding of an unfair grade, the Department will do everything in its power to correct the error. It must be understood, however, that only the instructor of a course can determine the substantive value of a student's performance in that course and only the instructor can change the grade.

Furthermore, while the Department wishes to see demonstrably unfair grades rectified, it will not automatically invoke the full procedure described below for every grievance. For example, a grievance based on the argument that one instructor's grading standards are stricter than those of others will normally not be pursued. Nor will minor imprecision in grading, such as between a B- and a B, normally be considered an appropriate grievance.

The first step in inquiring about the accuracy of a final grade should be directed to the lead instructor of the course. "Lead instructor" is to be understood as the student's classroom instructor, except in the case of the large multi-section courses math 105,115,116. For these courses the lead instructor is the course coordinator. The initial inquiry into the accuracy of the grade should take place before the fifteenth University business day of the first full term (Fall or Winter) following the term in which the disputed grade was issued. If, after this inquiry, the student is not satisfied with the instructor's response, the student may choose to initiate a formal grade grievance.

To initiate the formal grade grievance process, the student should contact the Associate Chair for Education of the Mathematics Department. The appeal should be filed (a) by the end of the first eight weeks of classes of the first full term (Fall or Winter) following the completion of the course, or (b) within eight weeks of the issuance of the grade received by making up a grade of "Incomplete." Requests to file complaints at later times will be considered in unusual circumstances.

The student must convey in writing the basis for the complaint, with specific evidence in support of the argument that the grade either was given in error or was unfairly determined. This formal complaint also should summarize the outcome of the initial inquiry to the course instructor, indicating what aspects are in dispute. Upon receipt of the written complaint, the Associate Chair will ask the instructor to provide a written summary restating how the final grade was determined and to respond to the specific claims made by the student.

After receiving this information from both the student and the instructor, the Associate Chair will then determine if sufficient evidence exists to convene the Department's Grade Grievance Committee. If the Associate Chair determines that there is insufficient evidence for the grade grievance, the matter is considered closed, and the original grade stands. In the case when the Associate Chair determines that sufficient evidence does exist, a two-step procedure will be followed:

Step 1

A discussion is held between the student and the instructor in the presence of the Associate Chair. If the discussion results in a mutually agreed resolution of the problem (i.e., retention of the current grade or change of grade), the Associate Chair will convey in writing the content of the agreed resolution to both instructor and student. If the problem is not resolved, Step 2 is taken.

Step 2

A review committee is appointed by the Associate Chair. The Committee will consist of the Associate Chair and

- Two other recent instructors of the course in question. If the course was taught by a Graduate Student Instructor (GSI), then one instructor should be a GSI and the other should be a faculty member, preferably a mentor in the case of a mentored course.
- Two students from the complainant's peer group; the students ordinarily will have completed the course in question.

The review committee meets together with the complainant and the instructor (if in residence). The Associate Chair chairs the review session. Both the student filing the grade grievance and the respective instructor will be provided with copies of the written student complaint and the instructor's summary in advance of the formal ^[1]_[SEP]hearing. During the formal hearing, the student will be asked to first present the basis of his or her complaint; the instructor will then be asked to present his or her explanation for how grades were determined. Following an open period of questions to all parties, i.e., the student, the instructor and the Grade Grievance committee members, 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. The Associate Chair has a vote only in the case of a tie. The recommendation may be for no change in grade or for a specified increase or decrease in grade.

If the Grade Grievance Committee decides that a grade change is not warranted, the Associate Chair 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 Associate Chair 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 Associate Chair indicating whether or not he/she will abide by the Grade Grievance Committee's recommendation. If the instructor agrees to a grade change, the Associate Chair will inform the student in writing of the instructor's decision and the student's final course grade will be changed. The matter is considered closed. If an instructor does not accept the Grade Grievance Committee's recommendation to change the final grade, the original grade will stand. By LSA College policy, 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 Associate Chair will convey in writing this decision to the student. The matter is considered closed. There is no appeal beyond the Department.

Updated March 2013

Approved August 2014

Instructors in the Department of Middle East Studies are expected to set fair and consistent grading procedures for their respective courses. If the grading rubric has been used consistently for each student, then the final grade is assumed to be the correct grade. However, students may inquire about a grade and, if they think that their grade has been assigned unfairly, they may subsequently initiate a grade grievance.

To appeal any grade, students must follow these steps:

Consultation with Instructor

The first step in inquiring about the accuracy of a final grade should be directed to the course instructor. In a multi-sectioned course, the inquiry should be made to the student's GSI, who will then consult with the course's faculty supervisor. This initial inquiry should take place no later than three weeks after the beginning of the first full term following the term in which the disputed grade was issued.

Filing a Grievance

If, after this inquiry, the student disputes the instructor's response regarding the student's grade, the student may choose to initiate a formal grade grievance. To start this process, the student should contact the Department Chair before the end of the fifth week of classes in the first full term following the term in which the disputed grade was issued, or within five weeks after the submission of a grade that replaces a grade of Incomplete.

To initiate a formal grievance, the student must convey in writing the basis for the complaint, with specific evidence in support of the student's argument that the grade was given in error or determined arbitrarily. This formal complaint should also summarize the outcome of the student's initial inquiry to the course instructor, indicating the matters that remain in dispute. Upon receipt of the written complaint, the Chair will then ask the instructor to provide a written summary restating how the instructor determined the final grade and responding to the student's specific claims.

After receiving this information from both the student and the instructor, the Department Chair will then determine if sufficient evidence exists to convene the Department's Executive Committee. If the Chair determines that there is no evidence for the grade grievance, the matter is considered closed, and the original grade stands. If the Chair determines that the grievance can proceed, then a date will be set for a hearing with the Department Executive Committee.

Grade Grievance Hearing

The Department Executive Committee will receive the student's written complaint and the instructor's summary in advance of the formal hearing; the student and the instructor will receive these documents as well. During the formal hearing, the student will be asked first to present the basis of his or her complaint. The instructor will then be asked to present his or her explanation for how grades were determined. Following an open period of questions to all parties, i.e. the student, the instructor and the Executive Committee members, the formal hearing will be adjourned.

Executive Committee's Recommendation

The Executive Committee will then have ten University business days to determine its recommendation. If the Executive Committee decides there is no basis for a grade change, the Executive Committee Chair will convey this in writing to the student and the instructor. The original grade will stand and the matter will be considered closed. If the committee recommends a change in the grade—whether up or down—the instructor will be asked to respond in writing within five University business days to the Executive Committee Chair, indicating whether or not he or she will abide by the Executive Committee's recommendation. If the instructor agrees to a grade change, the Executive Committee Chair will inform the student in writing of the instructor's decision and the student's final course grade will be changed. The matter will then be considered closed.

If an instructor does not accept the Executive Committee's recommendation to change the final grade, the original grade will stand. By College policy, a final course grade rests solely with the instructor and, as such, cannot be changed without the instructor's consent. When this occurs, the Executive Committee Chair will convey this decision to the student in writing. The matter is then considered closed.

[Molecular, Cellular, and Developmental Biology](#)

See Biology Programs above

[Organizational Studies Program](#)

Updated and Approved September 2019

I. Preamble

Within the College of Literature, Science, and the Arts, instructors are expected to set fair and consistent grading procedures for their respective courses. The key to implementing fair grading procedures in courses across the College is that individual instructors adhere to grading rubrics that are applied evenly and consistently to all students within a respective course. If the grading rubric is used consistently for each student, then the final grade is assumed to be the correct grade. Nevertheless, students can inquire about a grade and subsequently initiate a grade grievance when they think that the grade was unfairly given.

II. Consultation with Instructor

The first step in inquiring about the accuracy of a final grade should be directed to the lead instructor of the course. This initial inquiry should take place within the first fifteen (15) University business days of the first full term following the term in which the disputed grade was issued. If, after this inquiry, the student is not satisfied with the instructor's response, the student may choose to initiate a formal grade grievance. To initiate a formal grade grievance, the student should contact the Organizational Studies Faculty Curriculum Coordinator or Program Director before the end of the fifth week of classes in the first full term following the term in which the disputed grade was issued.

III. Formal Complaint to OS Faculty Curriculum Coordinator or Program Director

To initiate the formal grade grievance process, the student must convey in writing the basis for the complaint, with specific evidence in support of the argument that the grade either was given in error or was unfairly determined. This formal complaint also should summarize the outcome of the initial inquiry to the course instructor, indicating what aspects are in dispute. Upon receipt of the written complaint, the OS Faculty Curriculum Coordinator or Program Director will ask the instructor to provide a written summary restating how the final grade was determined and to respond to the specific claims made by the student.

After receiving this information from both the student and the instructor, the OS Faculty Curriculum Coordinator or Program Director will then determine if sufficient evidence exists to convene Organizational Studies Grade Grievance Committee. If the OS Faculty Curriculum Coordinator or Program Director determines that there is insufficient evidence for the grade grievance, the matter is considered closed, and the original grade stands.

If the OS Faculty Curriculum Coordinator or Program Director determines that the grade grievance should proceed, a date for a formal hearing with the OS Grade Grievance Committee will be set.

IV. Grade Grievance Hearing

Once it has been determined that a formal hearing will be held, the OS Director will empanel the appropriate OS Grade Grievance Committee. Both the student filing the grade grievance and the respective instructor 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 his or her complaint; the instructor will then be asked to present his or her explanation for how grades were determined. Following an open period of questions to all parties, i.e., the student, the instructor and the Grade Grievance committee members, the formal hearing will be adjourned.

V. Grade Grievance Committee's Recommendation

The Grade Grievance Committee will then have ten University business days to determine its recommendation and submit a written report to the OS Faculty Curriculum Coordinator or Program Director.

If the Grade Grievance Committee decides that a grade change is not warranted, the OS Faculty Curriculum Coordinator or Program Director 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 OS Faculty Curriculum Coordinator or Program Director 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 OS Faculty Curriculum Coordinator or Program Director indicating whether or not he/she will abide by the Grade Grievance Committee's recommendation. If the instructor agrees to a grade change, the OS Faculty Curriculum Coordinator or Program Director 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 an instructor does not accept the Grade Grievance Committee's recommendation to change the final grade, the original grade will stand. By College policy, 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 OS Faculty Curriculum Coordinator or Program Director will convey in writing this decision to the student. The matter is considered closed. There is no appeal beyond the Program.

In the event that the OS Faculty Curriculum Coordinator or Program Director is the instructor whose grade is being disputed, an appropriate alternate designee will be determined by the Organizational Studies administration.

Philosophy Department including Program in Philosophy, Politics, and Economics

Updated and Approved February 2012

I. Preamble

Instructors are expected to set fair and consistent grading procedures for their respective courses. The key to implementing fair grading procedures in courses across the College is that individual instructors adhere to grading rubrics that are applied evenly and consistently to all students within a respective course. If the grading rubric is used consistently for each student, then the final grade is presumed to be the correct grade. Because instructors are in the best position to determine the quality of student work, a grievance cannot be grounded on a mere disagreement with a grade, nor can it normally be based on the claim that one instructor's grading standards are stricter than those of others. For a grievance to be considered, a student must normally provide evidence that the grading has deviated from previously stated standards, or applied such standards inconsistently or failed to take into full consideration all graded components of a course, or assigned a grade on a basis other than course performance.

II. Consultation with Instructor

The first step in inquiring about the fairness of a final grade should be directed to the lead instructor of the course. This initial inquiry should take place within the first fifteen University business days of the first full term following the term in which the disputed grade was

issued. The student must confer with the lead instructor to make sure that both parties are aware of all pertinent facts and to identify the issues in dispute. Both parties must engage in an open-minded discussion of these issues and try to reach a solution both regard as equitable. If, after this inquiry, the student is not satisfied with the instructor's response, the student may choose to initiate a formal grade grievance. To initiate a formal grade grievance, the student should contact the Chair of Undergraduate Studies (CUS) of Philosophy before the end of the fifth week of classes in the first full term following the term in which the disputed grade was issued (or within five weeks after the submission of a grade replacing an Incomplete, if that time period lies within a full term). The initial contact may involve a preliminary oral discussion of the basis of the student's complaint. If, after this discussion, the student still believes that a formal grade grievance is warranted, the student must proceed in writing.

III. Formal Complaint to Chair of Undergraduate Studies (CUS)

To initiate the formal grade grievance process, the student must convey in writing the basis for the complaint, with specific evidence in support of the argument that the grade either was given in error or was unfairly determined. This formal complaint should summarize the outcome of the initial inquiry to the course instructor, indicating what aspects are in dispute. The student should accompany this letter with any relevant graded materials and all written grading rubrics provided by the instructor during the term. Upon receipt of the written complaint, the CUS will provide this complaint to the instructor and ask the instructor to provide a written summary stating how the final grade was determined and to respond to the specific claims made by the student. Normally the instructor will be expected to respond within two weeks.

After receiving this information from both the student and the instructor, the CUS will then determine if sufficient evidence exists to convene the Department's Grade Grievance Appeal Board. If the CUS determines that there is insufficient evidence for the grade grievance, the matter is considered closed, and the original grade stands. The CUS shall inform the student and instructor of this decision in writing.

If the CUS determines that the grade grievance should proceed, a date for a formal hearing with the Grade Grievance Appeal Board will be set in consultation with all parties.

IV. Grade Grievance Hearing

The CUS shall convey all written materials to the Philosophy Department Grade Grievance Appeal Board. For Undergraduates, the Board shall consist of the CUS, one other faculty member on that committee (appointed by the CUS), and one student, selected randomly from a group of volunteer undergraduate majors. For graduate students the Appeal Board will consist of the Chair of the Graduate Studies Committee, one other faculty member on that committee (appointed by the Committee chair), and one student, selected randomly from a group of volunteer Ph.D. students. If the instructor in question is a member of the Appeal Board, then she/he will be excused and the relevant committee chair will appoint a substitute faculty member. The Appeal Board may, at its discretion, ask another faculty member to act as a consultant on the issue.

Both the student filing the grade grievance and the respective instructor will be provided with

copies of the written student complaint and the instructor's written response in advance of the formal hearing. During the formal hearing, the student will be asked to first present the basis of his or her complaint; the instructor will then be asked to present his or her explanation for how grades were determined. Following an open period of questions to all parties, i.e., the student, the instructor and the Grade Grievance Appeal Board members, the formal hearing will be adjourned.

V. Grade Grievance Appeal Board's Recommendation

The Grade Grievance Appeal Board will then have ten University business days to determine its recommendation and submit a written report to the CUS.

If the Grade Grievance Appeal Board decides that a grade change is not warranted, the CUS will convey this in writing to the student and the instructor. The original grade will stand, and the matter is considered closed.

If the Appeal Board recommends a grade change, the CUS 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 CUS indicating whether or not he/she will abide by the Grade Grievance Appeal Board's recommendation. If the instructor agrees to a grade change, the CUS 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 an instructor does not accept the Grade Grievance Appeal Board's recommendation to change the final grade, the original grade will stand. By College policy (Faculty Code B 5.01), a final course grade rests solely with the instructor and, as such, a course grade cannot be changed without the primary instructor's consent. [1] When this occurs, the CUS will convey in writing this decision to the student. The matter is considered closed. There is no appeal beyond the Department. However, the Appeal Board may, at its discretion, prepare a letter setting forth its view of the instructor's conduct and forward the letter to the Department Chair for inclusion in the instructor's personnel file. The Board may also prepare a letter for the student; the student may request to have a copy of the letter retained by the Office of the Assistant Dean.

[1] An exception may occur when the instructor is no longer at the University of Michigan. In that case, if the CUS has been unable to elicit a response from the instructor, the CUS may approve a grade change in consultation with the Appeal Board and the Chair of the Department.

Physics Department

Updated and Approved March 2012

Instructors in the Physics Department are expected to set fair and consistent grading procedures for their respective courses. By College of LSA policy, assignment of final course grades rests solely with the instructor of record. As such, a course grade cannot be changed without the instructor's consent.

If a student believes that his/her academic performance has been unfairly or improperly graded, the following appeal procedures may be followed.

Step 1. Consultation with the Instructor

A discussion between the student and instructor of the course regarding the accuracy of the final grade should take place, preferably no later than fifteen (15) days after the grade is posted.

Step 2. Formal Grievance to Associate Chair for Undergraduate Studies

If there is no resolution after this consultation, the student may choose to initiate a formal grade grievance. The student should contact the Associate Chair for the Undergraduate Program (hereafter, AC) in Physics regarding the grade in question before the end of the fifth (5th) week of classes in the next full term in which the student is active following the term/course in question.

To initiate the formal grade grievance process, the student must convey in writing the basis for the complaint, with specific evidence in support of the argument that the grade either was given in error or was unfairly determined. This formal complaint also should summarize the outcome of the initial inquiry to the course instructor, indicating what aspects are in dispute.

Upon receipt of the written complaint, the AC will ask the instructor to provide a written statement that responds to the specific claims made by the student.

After receiving this information from both the student and the instructor, the AC will determine if sufficient evidence exists to convene a departmental Grade Grievance Committee. If the AC determines that there is insufficient evidence for the grade grievance, the matter is considered closed and the original grade stands.

Step 3. Grade Grievance Hearing

Once it has been determined that a formal hearing will be held, the AC will set a hearing date and empanel an ad hoc departmental Grade Grievance Committee consisting of two other recent instructors of the course in question. Both the student filing the grade grievance and the respective instructor 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 his or her complaint; the instructor will then be asked to present his or her explanation for how grades were determined for the class in general and this student in particular. Following an open period of discussion among all parties, i.e., the student, instructor and the Grade Grievance committee members, the formal hearing will be adjourned.

Step 4. Grade Grievance Committee's Recommendation

The Grade Grievance Committee will then have ten (10) University business days to determine its recommendation and submit a written report to the AC.

If the Grade Grievance Committee decides that a grade change is not warranted, the AC will convey this in writing to the student and the instructor. The original grade will stand, and the matter will be considered closed.

If the committee recommends a grade change, the AC will communicate that decision directly to the instructor. The instructor will then be asked to respond in writing within five (5) University business days to AC indicating whether or not he/she will abide by the Grade Grievance Committee's recommendation. If the instructor agrees to a grade change, the instructor will enact this change and the matter will be considered closed.

If the instructor does not accept the Grade Grievance Committee's recommendation to change the final grade, the original grade will stand, and the matter will be considered closed.

In either outcome, the AC will convey in writing the decision to the student.

Political Science Department

Updated and Approved February 2012

This document outlines procedures to be followed in cases of grade disputes between students taking undergraduate political science courses and their instructors.

Grading complaints should be referred initially to the faculty member who assigned the grade. This initial inquiry must take place within the first fifteen University business days of the first full term following the term in which the disputed grade was issued. Every effort should be made to gain agreement between the student and the faculty member without further intervention. In extraordinary cases, where the issues cannot be resolved in this manner, a student may initiate formal grade grievance procedures. Departmental grievance procedures are intended to result in a recommendation, for or against change, to the appropriate faculty member. A grade given by a faculty member may be changed only by that faculty member. A grade given by a Graduate Student Instructor may be changed by that instructor or by the faculty supervisor of the course. A student may invoke the departmental grievance procedures within the first five weeks of classes of the first regular full term (Fall or Winter) following the completion of the course, or within five weeks of the issuance of a grade removing an "Incomplete."

In cases where a student wishes to submit a grade complaint to grievance procedures, the following steps are to be followed in sequential order:

1. The student may petition the Department's Director of Undergraduate Studies (DUS) for a hearing before the Undergraduate Affairs Committee (UAC). The student must convey in writing the basis for the complaint, with specific evidence in support of the argument that the grade either was given in error or was unfairly determined. This formal complaint also should summarize the outcome of the initial inquiry to the course instructor, indicating which aspects are in dispute. Within three weeks of receiving the petition the DUS will inform the student and the UAC whether an appeal will be heard.
2. If the DUS allows the appeal to be heard, both parties to the dispute will be encouraged to participate. No additional persons will be permitted at the hearing without the advance approval of the hearing committee. If the Undergraduate Affairs Committee assents to the presence of any such persons, it will see to it that same privileges are extended to both sides.
3. The Undergraduate Affairs Committee will arrive at a recommendation within ten days,

suggesting what action (if any) it feels should be taken. Copies of the recommendation will be sent to the student, the instructor who assigned the contested grade, the course supervisor (if the former is a GSI), and the Department Chair.

4. If the DUS declines to provide a hearing before the UAC, or if the student is dissatisfied with the Subcommittee's decision, any further appeal that the student may wish to pursue should be directed in writing to the departmental Executive Committee within two weeks of receiving notice of the above decisions.
5. Per College policy, there is no appeal beyond the Department.
6. In unusual circumstances, the time limits specified above may be extended by the Department Chair.

Program in the Environment

Updated and Approved August 2012

Preamble

Normally students agree with an instructor's evaluation of their work. Nevertheless, there are instances when a student feels that his or her academic performance has been unfairly or improperly graded. Examples of unfair or improper grading include prejudice, capricious changes in the course requirements, and lack of uniformity in applied judgment. When these complaints arise, discussion and arbitration reviews can bring out the factual basis for the situation and ascertain if there is a wrong that should be righted. However, such review is not intended to dispute the instructor's right to make his or her own evaluation of a student's work.

The following procedures have been established by the Program in the Environment (hereafter, the Program) in compliance with Section A.2.05 of the Faculty Code in order to deal efficiently with student complaints regarding alleged unfair or improper grading.

Appeal Structure

1. A) The student must communicate with the instructor of the course in question, in writing within 15 working days after the posting of final grades, stating his/her reasons for requesting a change in grade.
1. B) The instructor must reply promptly (within 15 working days). She/he must reply in writing that is dated, stating his/her reasons for the assignment of the grade in question.
1. C) A student's complaint will be considered for review by the Program only after the student and his or her instructor have discussed the matter together as described in 1A & B.
2. If a student is unable to obtain resolution of an alleged unfair or improper grade through discussions with his or her instructor, the student may seek redress by filing a written complaint with the Program Associate Director. The written complaint must be made within seven working days after the student receives the explanation by the instructor stating his/her reasons for the assignment of the grade in question. If the Program Associate Director is included in an appeal, the Associate Director will delegate administering the subsequent appeals process to the Director.

3. A) The Associate Director or the Director of the Program will appoint a Review Committee on Grading Appeals (hereafter, Review Committee). The Review Committee shall consist of at least three members. It shall be chaired by the Associate Director or the Director of the Program. The remaining two members shall be named ad hoc for each case that arises; one shall be chosen from among the current members of the Program's Advisory Committee or faculty with at least a 25% appointment in PitE, and the other shall be a peer representative. The peer representative shall be an undergraduate selected by the Review Committee Chair from among students in the Program volunteering to serve on a panel from which Review Committee members would be chosen when needed. If there are no student volunteers or panel members available, a representative will be selected by the Associate Director or the Director of the Program.

3. B) Initial arrangements regarding time and place for any meetings with the Review Committee and the instructor and/or student may be made by telephone or in person, but the Chair of the Review Committee shall confirm such understandings in writing.

3. C) Meetings with the Review Committee and the instructor and/or student shall be held at a time convenient for all parties concerned.

3. D) The Review Committee will have the final responsibility for promptly initiating and conducting an adequate investigation of student complaints regarding alleged unfair or improper grading.

4. At the discretion of the Chair of the Review Committee, an informal meeting may be held between an arbitrator appointed by the Chair and the two concerned parties in order to seek resolution of their differences of opinion. If the differences cannot be resolved in this manner, or if the Review Committee Chair believes the allegations are of a more serious nature, the Chair may proceed with a formal review by the whole Review Committee.

5. A) The Chair of the Review Committee will notify the student and instructor of the date and time of the formal hearing in writing at least two weeks before the hearing date. The student and instructor will be provided an opportunity to submit supportive documentation for review by the Review Committee. The Review Committee will provide each party with copies of all documents that it has received at least 3 business days before the formal hearing.

5. B) For a formal review, all available course work should be available to the student, instructor, and members of the Review Committee. The student is responsible for presenting work which was turned back to him/ her.

5. C) At any meeting held before the Review Committee, both the student and the instructor shall appear at the same time.

5. D) The student has the burden of establishing that the grade that he/she received was inappropriate.

6. If the Review Committee finds that the instructor has not acted fairly or properly, it should attempt to persuade the instructor to change the grade. Should this attempt prove unsuccessful,

the committee may at its discretion prepare a letter setting forth its view of the instructors conduct and forward the letter as a matter of record to the LSA Dean's office noting the instructor refused to change the grade. The letter will be filed with the LSA Dean's office, with a copy for the instructor's file.

7. The Review Committee will notify the student and instructor in writing of its decision, within five business days of the hearing. The decisions of the Review Committee with regard to the validity of the grade grievance and any appropriate remedy are final.

8. A report stating what procedures were followed and what decision were reached will be sent to the LSA Assistant Dean of Student Academic Affairs within five business days after the conclusion of the review process.

Psychology Department

Updated and Approved February 2012

Preamble

Within the College of Literature, Science, and the Arts, instructors are expected to set fair and consistent grading procedures for their respective courses. The key to implementing fair grading procedures in courses across the College is that individual instructors adhere to grading rubrics that are applied evenly and consistently to all students within a respective course. If the grading rubric is used consistently for each student, then the final grade is assumed to be the correct grade. Nevertheless, students can inquire about a grade and subsequently initiate a grade grievance when they think that the grade was unfairly given.

Consultation with Instructor

The first step in inquiring about the accuracy of a final grade should be directed to the lead instructor of the course. This initial inquiry should take place within the first fifteen University business days of the first full term following the term in which the disputed grade was issued. If, after this inquiry, the student is not satisfied with the instructor's response, the student may choose to initiate a formal grade grievance. To initiate a formal grade grievance, the student should contact the Associate Chair of Undergraduate Studies (ACUS) or the Director of Undergraduate Studies (DUS) of the home department of the course in question before the end of the fifth week of classes in the first full term following the term in which the disputed grade was issued. In Psychology, students need to contact the Student Academic Affairs Office, 1343 East Hall, psych.saa@umich.edu.

Formal Complaint to Associate Chair of Undergraduate Studies (ACUS) or Director of Undergraduate Studies (DUS)

To initiate the formal grade grievance process, the student must convey in writing the basis for the complaint, with specific evidence in support of the argument that the grade either was given in error or was unfairly determined. This formal complaint also should summarize the outcome of the initial inquiry to the course instructor, indicating what aspects are in dispute. Upon receipt

of the written complaint, the ACUS/DUS will ask the instructor to provide a written summary restating how the final grade was determined and to respond to the specific claims made by the student.

After receiving this information from both the student and the instructor, the ACUS/DUS will then 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.

If the ACUS/DUS determines that the grade grievance should proceed, a date for a formal hearing with the Grade Grievance Committee will be set.

Grade Grievance Hearing

Once it has been determined that a formal hearing will be held, the ACUS/DUS will empanel the appropriate Departmental Grade Grievance Committee. Both the student filing the grade grievance and the respective instructor 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 his or her complaint; the instructor will then be asked to present his or her explanation for how grades were determined. Following an open period of questions to all parties, i.e., the student, the instructor and the Grade Grievance committee members, the formal hearing will be adjourned.

Grade Grievance Committee's Recommendation

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 he/she 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 an instructor does not accept the Grade Grievance Committee's recommendation to change the final grade, the original grade will stand. By College policy, 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.

Approved August 2012

I. Preamble

Within the Residential College (RC) in the College of Literature, Science, and the Arts, instructors are expected to set fair and consistent grading procedures for their respective courses. The key to implementing fair grading procedures in courses across the College is that individual instructors adhere to grading rubrics that are applied evenly and consistently to all students within a respective course. If the grading rubric is used consistently for each student, then the final grade is assumed to be the correct grade. Nevertheless, students can inquire about a grade and subsequently initiate a grade grievance when they think that the grade was unfairly given. The guidelines below shall serve to advise students in RC classes, faculty, and administration as to RC grade grievance procedures.

II. Consultation with Instructor

The first step in inquiring about the accuracy of a final grade should be directed to the lead instructor of the RC course. The student's initial inquiry should take place within the first fifteen University business days of the first full term following the term in which the disputed grade was issued. If, after this inquiry, the student is not satisfied with the instructor's response, the student may choose to initiate a formal grade grievance. To initiate a formal grade grievance, the student should contact the RC Director of Academic Services (currently Jennifer Myers, jeniferm@umich.edu).

III. Formal Complaint to the RC Director of Academic Services (RCDAS)

To initiate the formal grade grievance process, the student must convey in writing the basis for the complaint, with specific evidence in support of the argument that the grade either was given in error or was unfairly determined. This formal complaint also should summarize the outcome of the initial inquiry to the course instructor, indicating what aspects are in dispute. Upon receipt of the written complaint, the Director of Academic Services will ask the instructor to provide a written summary restating how the final grade was determined and to respond to the specific claims made by the student.

After receiving this information from both the student and the instructor, the RCDAS will then determine if sufficient evidence exists to convene the Department's Grade Grievance Committee. If the RCDAS determines that there is insufficient evidence for the grade grievance, the matter is considered closed, and the original grade stands.

If the RCDAS determines that the grade grievance should proceed, a date for a formal hearing with the Grade Grievance Committee will be set.

IV. Grade Grievance Hearing

Once it has been determined that a formal hearing will be held, the RCDAS will empanel the RC Grade Grievance Committee – comprised of the Director of Academic Services (ex officio), an advisor from the Board on Academic Standing, an outside faculty member, the Residential College Director, the program head of the course in question, and, if possible 1 or 2 students who

have taken the course, chosen at random. Both the student filing the grade grievance and the respective instructor 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 his or her complaint; the instructor will then be asked to present his or her explanation for how grades were determined. Following an open period of questions to all parties, i.e., the student, the instructor and the Grade Grievance committee members, the formal hearing will be adjourned.

V. Grade Grievance Committee's Recommendation

The Grade Grievance Committee will then have ten University business days to determine its recommendation and submit a written report to the RCDAS. If the Grade Grievance Committee decides that a grade change is not warranted, the RCDAS 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 RCDAS 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 RCDAS indicating whether or not he/she will abide by the Grade Grievance Committee's recommendation. If the instructor agrees to a grade change, the RCDAS 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 an instructor does not accept the Grade Grievance Committee's recommendation to change the final grade, the original grade will stand. By College policy, 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 RCDAS will convey in writing this decision to the student. The matter is considered closed.

Once this procedure has been exhausted, there is no other appeal procedure in the Residential College or in the College of LSA or at the University of Michigan at large.

Romance Languages and Literatures Department

Updated and Approved July 2017

Preamble

Within the College of Literature, Science, and the Arts, instructors are expected to set fair and consistent grading procedures for their respective courses. The key to implementing fair grading procedures in courses across the College is that individual instructors adhere to grading rubrics that are applied evenly and consistently to all students within a respective course. If the grading rubric is used consistently for each student, then the final grade is assumed to be the correct grade. Nevertheless, students can inquire about a grade and subsequently initiate a grade grievance when they think that the grade was unfairly given.

Consultation with Instructor

In the Department of Romance Languages and Literatures the first step in inquiring about the accuracy of a final grade should be directed to the lead instructor of the course. This initial inquiry should take place within the first fifteen University business days of the first full term following the term in which the disputed grade was issued. If, after this inquiry, the student is not satisfied with the instructor's response, the student may choose to initiate a formal grade grievance. To initiate a formal grade grievance, the student should contact the RLL Grievance Officer before the end of the fifth week of classes in the first full term following the term in which the disputed grade was issued.

Formal Complaint to the Grievance Officer

To initiate the formal grade grievance process, the student must convey in writing the basis for the complaint, with specific evidence in support of the argument that the grade either was given in error or was unfairly determined. This formal complaint also should summarize the outcome of the initial inquiry to the course instructor, indicating what aspects are in dispute. All materials related to the complaint should be sent to rll.grade grievance@umich.edu. Upon receipt of the written complaint, the Grievance Officer will ask the instructor to provide a written summary restating how the final grade was determined and to respond to the specific claims made by the student.

After receiving this information from both the student and the instructor, the Grievance Officer will then determine if sufficient evidence exists to convene the Department's Grade Grievance Committee, which in Romance Languages and Literatures is the Executive Committee. If the Grievance Officer determines that there is insufficient evidence for the grade grievance, the matter is considered closed, and the original grade stands.

If the Grievance Officer determines that the grade grievance should proceed, a date for a formal hearing with the Grade Grievance Committee will be set.

Grade Grievance Hearing

Once it has been determined that a formal hearing will be held, the Grievance Officer will empanel the Departmental Grade Grievance Committee, which is the Executive Committee. Both the student filing the grade grievance and the respective instructor 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 his or her complaint; the instructor will then be asked to present his or her explanation for how grades were determined. Following an open period of questions to all parties, i.e., the student, the instructor and the Grade Grievance committee members, the formal hearing will be adjourned.

Grade Grievance Committee's Recommendation

The Grade Grievance Committee (the Executive Committee) will then have ten University business days to determine its recommendation and submit a written report to the Grievance Officer.

If the Grade Grievance Committee decides that a grade change is not warranted, the Grievance Officer 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 Grievance Officer 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 Grievance Officer indicating whether or not he/she will abide by the Grade Grievance Committee's recommendation. If the instructor agrees to a grade change, the Grievance Officer 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 an instructor does not accept the Grade Grievance Committee's recommendation to change the final grade, the original grade will stand. By College policy, 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 Grievance Officer will convey in writing this decision to the student. The matter is considered closed. There is no appeal beyond the Department.

Slavic Languages and Literatures Department

I. Preamble

It is the intent of the Slavic Department that all instructors are expected to set fair and consistent grading procedures for their courses. Grading criteria are applied evenly and consistently for all students in a course and the final grade is assumed to be the correct grade. Nevertheless, students can inquire about a grade and subsequently initiate a grade grievance when they think that the grade was unfairly given.

II. Consultation with Instructor

A student who believes that an unfair grade has been given to him/her in a particular course should consult with the course instructor within the first fifteen University business days of the first full term following the term in which the disputed grade was issued. If this meeting fails to resolve the issue satisfactorily, the student may choose to initiate a formal grade grievance. To initiate a formal grade grievance, the student should contact the Department Chair before the end of the fifth week of classes in the first full term following the term in which the disputed grade was issued.

III. Formal Complaint to Department Chair

To initiate the formal grade grievance process, the student must convey in writing the basis for the complaint, with specific evidence in support of the argument that the grade either was given in error or was unfairly determined. This formal complaint also should summarize the outcome of the initial inquiry to the course instructor, indicating what aspects are in dispute. Upon receipt of the written complaint, the Department Chair will ask the instructor to provide a written summary restating how the final grade was determined and to respond to the specific claims made by the student.

After receiving this information from both the student and the instructor, the Department Chair will then determine if sufficient evidence exists to convene the Department's Grade Grievance Committee. If the Department Chair determines that there is insufficient evidence for the grade grievance, the matter is considered closed, and the original grade stands.

If the Department Chair determines that the grade grievance should proceed, a date for a formal hearing with a Grade Grievance Committee will be set.

IV. Grade Grievance Hearing

Once it has been determined that a formal hearing will be held, the Department Chair will empanel a Departmental Grade Grievance Committee. The Grade Grievance Committee will be comprised of the Chair, two members of the Department Executive Committee, and two other students from the course (graduate or undergraduate, depending upon the level of the complaining student), selected by the student. In advance of the formal hearing, both the student filing the grade grievance and the instructor in question will be provided with copies of the written student complaint, the instructor's response statement and all coursework for which grades are being disputed. During the formal hearing, the student will be asked to first present the basis of his or her complaint; the instructor will then be asked to present his or her explanation for how grades were determined. Following an open period of questions to all parties, i.e., the student, the instructor and the Grade Grievance committee members, the formal hearing will be adjourned.

V. Grade Grievance Committee's Recommendation

The Grade Grievance Committee will then have ten University business days to determine its recommendation and submit a written report. The report submitted must be approved by a majority of those voting, with the Chair's vote as a tie-breaker, if necessary.

If the Grade Grievance Committee decides that a grade change is not warranted, the Department Chair will convey this in writing to the student and the instructor. The original grade will stand, and the matter will be considered closed.

If the committee recommends a grade change, the Department Chair 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 Department Chair indicating whether or not he/she will abide by the Grade Grievance Committee's recommendation. If the instructor agrees to a grade change, the Department Chair will in writing inform the student of the instructor's decision and the student's final course grade will be changed. The matter will be then considered closed.

If an instructor does not accept the Grade Grievance Committee's recommendation to change the final grade, the original grade will stand. By College policy, 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 Department Chair will convey in writing this decision to the student. The matter will be considered closed. There is no appeal beyond the Department.

I. Preamble

The Department of Sociology believes that an instructor is in the best position to determine the quality of a student's work in their course. The department also has confidence in the qualifications and good judgment of its faculty. Nevertheless, there are instances when a student feels that his or her academic performance has been unfairly or improperly graded. When such charges arise, discussion and arbitration can help ascertain if there is a wrong which should be righted. However, it is ultimately only the course instructor who can determine the substantive value of a student's performance in that course, and only the instructor can change the grade.

To submit a grade grievance, the student must make the case that the grade received was unjust and substantially different from the grade that was justified. The difference between an A- and a B+ is not, for example, a substantial difference. Dissatisfaction with a grade alone is not sufficient for a grade grievance nor will appeals be heard where a student has not attended class regularly or turned in all required work.

A grade grievance is available only for review of alleged capricious grading, not an instructor's judgment in assessing the quality of a student's work. Capricious grading includes any of the following: the assignment of a grade to a particular student on some basis other than course performance; the assignment of a grade to a particular student by more exacting or demanding standards than were applied to other students in that course; or the assignment of a grade by a substantial departure from the instructor's previously announced standards. A change in course or examination requirements that applies equally to all students is not grounds for an individual student's grievance.

II. Consultation with Instructor

The first step in inquiring about the fairness of a final grade should be directed to the lead instructor of the course. This initial inquiry should take place within the first fifteen University business days of the first full term following the term in which the disputed grade was issued. If, after this inquiry, the student is not satisfied with the instructor's response, the student may choose to initiate a formal grade grievance. To initiate a formal grade grievance, the student should contact the department's undergraduate program director before the end of the fifth week of classes in the first full term following the term in which the disputed grade was issued.

III. Formal Complaint to Undergraduate Program Director

To initiate the formal grade grievance process, the student must convey in writing the basis for the complaint, with specific evidence in support of the argument that the grade was unfairly determined. This formal complaint also should summarize the outcome of the initial inquiry to the course instructor, indicating what aspects are in dispute. The student should also submit all papers and examinations written for the course to which the student has access. Upon receipt of the written complaint and within three weeks, the undergraduate program director will ask the instructor to provide a written summary restating how the final grade was determined and to respond to the specific claims made by the student.

After receiving this information from both the student and the instructor, the undergraduate program director will then determine if sufficient evidence exists for a grade grievance.

If the undergraduate program director determines that there is insufficient evidence for the grade grievance, the matter is considered closed, and the original grade stands. If the undergraduate program director determines that the grade grievance should proceed, he/shewill convene an ad hoc committee (hereafter the Grade Grievance Committee) and set a date for a formal hearing. The hearing should be scheduled within two weeks of the Committee's receipt of materials from the student and instructor. This committee will consist of the department chair,two additional faculty members, the undergraduate department advisor, and two sociology majors chosen by the undergraduate director.

IV. Grade Grievance Hearing

Before the formal hearing the undergraduate program director will supply both the student filing the grade grievance and the respective instructor with copies of the written student complaint and the instructor's summary. During the hearing, the student will be asked to first present the basis of his or her complaint; the instructor will then be asked to present his or her explanation for how grades were determined. Following an open period of questions to all parties, i.e., the student, the instructor and the Grade Grievance Committee members, the formal hearing will be adjourned.

V. Grade Grievance Committee's Recommendation

The Grade Grievance Committee will have ten University business days from the date of the hearing to determine its recommendation and submit a written report to the undergraduate program director.

If the Grade Grievance Committee decides that a grade change is not warranted, the undergraduate program director 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 undergraduate program director 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 undergraduate program director indicating whether or not he/she will abide by the Grade Grievance Committee's recommendation. If the instructor agrees to a grade change, the undergraduate program director 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 an instructor does not accept the Grade Grievance Committee's recommendation to change the final grade, the original grade will stand. By College policy, 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 undergraduate program director will convey in writing this decision to the student. The matter is considered closed. There is no appeal beyond the department.

Updated and Approved August 2012

I. Preamble

The Department of Statistics sets high standards for students and maintains a high standard of fairness in grading. Problem sets can often be measured against model solutions with little ambiguity as to the correct score. With open ended or writing-focused assignments, grading standards are articulated in assignment sheets and, where appropriate, in grading rubrics. When these standards are consistently applied throughout a course, then the final grade is assumed to be the correct grade.

Nevertheless, students can inquire about a grade and subsequently initiate a grade grievance when they think that the grade was unfairly given.

II. Consultation with Instructor

The student's first recourse is to contact the instructor assigning the grade. Any student who believes a final grade is unfair must meet with the instructor of the course (a) by the end of the first six weeks of classes of the first regular term (Fall or Winter) following completion of the course, or (b) within six weeks of the issuance of a grade received by making up a grade of "incomplete". Grade appeals at later times will be considered only in extraordinary circumstances. If the instructor of the course is no longer employed at the University, however, the student may bypass this step and immediately initiate a formal complaint.

III. Formal Complaint to Department Chair

If the outcome of the instructor consultation is not satisfactory to the student, he or she can make a formal complaint. The complaint should take the form of a letter describing the student's grievance and presenting specific evidence that the grade either was given in error or was unfairly determined. Relevant graded work and assignment sheets may be included as appendices. The letter should also summarize the outcome of the initial inquiry with the course instructor and indicate what aspects of the grievance remain in dispute.

The letter should be addressed to the Chair of the home department of the course in question and must be delivered within two weeks of the student's consultation with the instructor or, if the instructor indicates during the consultation that she or he will convey a decision afterwards, within two weeks of the instructor's communicating her or his response to the student. (If the student waits more than two weeks without receiving the instructor's response, he or she can initiate a formal complaint before hearing from the instructor and has an additional three weeks within which to do so.) If the letter or accompanying appendices are delivered in paper form, the student should also notify its intended recipient of its delivery by e-mail.

If the instructor is the Chair, the formal complaint should be submitted to the Associate Chair, who will oversee the steps in IV.

IV. Department Review of Grade

Timely receipt of a letter of complaint initiates a formal peer review, administered by a Grade Review Committee appointed by the Chair. The Grade Review Committee may, at its discretion: (a) issue a recommendation upon its review of the complaint; or (b) solicit a response from the instructor and upon receipt of the response issue a recommendation to the Department Chair.

If the Grade Review Committee decides that a grade change is not warranted, the Chair will convey this in writing to the student and the instructor. The original grade will stand, and the matter is considered closed.

If the Grade Review Committee recommends a grade change, the Chair will communicate that decision directly to the instructor. The instructor will consider the recommendation and make a final decision. If the instructor agrees to a grade change, the Chair 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 Review Committee's recommendation to change the final grade, the original grade will stand. By College policy, 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 Chair will convey in writing this decision to the student. The matter is considered closed. There is no appeal beyond the Department.

The student can expect a final decision within three months of filing a letter of complaint.

[Sweetland Center for Writing](#)

Updated and Approved August 2012

Two principles should be clearly understood as part of the context of any grade grievance:

1. A grade given by a faculty member may be changed only by that faculty member (Faculty Code B 5.01). Sweetland's grade grievance procedures are intended to result in a recommendation, for or against a change, to the appropriate faculty member.
2. While Sweetland wishes to see demonstrably unfair grades rectified, it will not automatically invoke the full procedure described below for every grade grievance. For example, a grade grievance based on the argument that one instructor's grading standards are stricter than those of others will normally not be pursued.

When a student believes a grade is unfair and wishes to invoke the Sweetland grade grievance procedure, these steps are to be followed:

1. Meet with the Instructor

The student should first confer with her/his instructor within the first 15 University business days of the first full term (i.e., Fall or Winter) following the term in which the disputed grade was issued to make sure that both are aware of all the pertinent facts and to identify the issues that are in dispute. For example, if a student is challenging a grade received in winter term 2012, the student must meet with the instructor before the end of the fifth week of fall term 2012.

2. Write an appeal to the Associate Director

If the first step does not lead to a resolution, the student should then write a letter to Naomi Silver, Associate Director of Sweetland, detailing her/his objections and send it with both clean copies and original graded copies of all her/his written work for the course, and any other relevant work (e.g., new media assignments), to Michael Zakalik, Sweetland Center for Writing, 1310 North Quad, 1285, or zakalikm@umich.edu. These materials must be received before the end of the fifth week of classes in the first full term following the term in which the disputed grade was issued.

3. Sweetland's Associate Director requests written response from the Instructor

Upon receipt of the written grade grievance, the Associate Director will ask the instructor to provide a written summary restating how the final grade was determined and to respond to the specific claims made by the student.

4. Sweetland's Associate Director reviews materials

If the Associate Director determines there is insufficient evidence for the grade grievance, the matter is closed and the original grade stands.

If the Associate Director determines that the objections presented by the student point to possible unfairness, she will recommend to the Director of the Sweetland Center for Writing that a Grade Grievance Committee be appointed. Such a committee normally will consist of the Associate Director, at least one other faculty member, and at least one undergraduate.

5. Hearing with the Grade Grievance Committee, When Necessary

Within two weeks of the appointment of the Grade Grievance Committee, the committee will arrange a hearing at which both parties to the dispute will be asked to appear. No additional persons will be permitted at the hearing without the advance approval of the committee, which, if it agrees to such persons, will see to it that the same privileges are extended to both sides. Prior to this hearing, both the student filing the grade grievance and the respective instructor will be provided with copies of the written student complaint and the instructor's summary.

The purpose of the hearing will be to allow the committee to inform itself as fully as possible. The student will first be asked to present the basis of her/his complaint, the instructor will then be asked to explain how grades were determined, followed by an open period for questions to all parties.

6. Grade Grievance Committee Decisions

After the hearing, the Grade Grievance Committee will have ten University business days to arrive at a recommendation. If the committee decides that a grade change is not warranted, the Associate Director will inform the student and the instructor in writing and the matter is considered closed.

If the committee recommends a grade change, the Associate Director will inform the instructor. The instructor will be asked to respond in writing within five University business days to the Associate Director indicating whether or not she/he will abide by the recommendation from the committee. If the instructor agrees to a grade change, the Associate Director will inform the student in writing of the instructor's decision and the student's final grade will be changed.

If the instructor does not accept the recommendation to change the grade, the original grade stands. The Associate Director will inform the student in writing of this decision and the matter is considered closed.

University Courses

Updated and Approved August 2012

Within the College of Literature, Science, and the Arts, instructors are expected to set fair and consistent grading procedures for their respective courses. The key to implementing fair grading procedures in courses across the College is that individual instructors adhere to grading rubrics that are applied evenly and consistently to all students within a respective course. If the grading rubric is used consistently for each student, then the final grade is assumed to be the correct grade. Nevertheless, students can inquire about a grade and subsequently initiate a grade grievance when they think that the grade was unfairly given.

The University Courses Division is a unit of the Office of the LSA Associate Dean for Undergraduate Education. Students who want to inquire about the accuracy of their final grade in UC courses should pursue the following steps:

Consultation with Instructor

The first step in inquiring about the accuracy of a final grade should be directed to the lead instructor of the course. This initial inquiry should take place within the first fifteen University business days of the first full term following the term in which the disputed grade was issued. If, after this inquiry, the student is not satisfied with the instructor's response, the student may choose to initiate a formal grade grievance. To initiate a formal grade grievance, the student should contact the Assistant Dean for Undergraduate Education before the end of the fifth week of classes in the first full term following the term in which the disputed grade was issued.

Formal Complaint to the Assistant Dean for Undergraduate Education

To initiate the formal grade grievance process, the student must convey in writing the basis for the complaint, with specific evidence in support of the argument that the grade either was given in error or was unfairly determined. This formal complaint also should summarize the outcome of the initial inquiry to the course instructor, indicating what aspects are in dispute. Upon receipt of the written complaint, the Assistant Dean will ask the instructor to provide a written summary restating how the final grade was determined and to respond to the specific claims made by the student.

After receiving this information from both the student and the instructor, the Assistant Dean will

then determine if sufficient evidence exists to convene the UC Division's Grade Grievance Committee. If the Assistant Dean determines that there is insufficient evidence for the grade grievance, the matter is considered closed, and the original grade stands.

If the Assistant Dean determines that the grade grievance should proceed, a date for a formal hearing with the Grade Grievance Committee will be set.

Grade Grievance Hearing

Once it has been determined that a formal hearing will be held, the Assistant Dean will empanel the appropriate University Courses Division Grade Grievance Committee. Both the student filing the grade grievance and the respective instructor 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 his or her complaint; the instructor will then be asked to present his or her explanation for how grades were determined. Following an open period of questions to all parties, i.e., the student, the instructor and the Grade Grievance committee members, the formal hearing will be adjourned.

Grade Grievance Committee's Recommendation

The Grade Grievance Committee will then have ten University business days to determine its recommendation and submit a written report to the Assistant Dean.

If the Grade Grievance Committee decides that a grade change is not warranted, the Assistant Dean 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 Assistant Dean 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 Assistant Dean indicating whether or not he/she will abide by the Grade Grievance Committee's recommendation. If the instructor agrees to a grade change, the Assistant Dean 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 an instructor does not accept the Grade Grievance Committee's recommendation to change the final grade, the original grade will stand. By College policy, 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 Assistant Dean will convey in writing this decision to the student. The matter is considered closed. There is no appeal beyond the University Courses Division.

Women's Studies Department

Instructors have the responsibility and authority to assign grades to students in their courses. While instructors may have different standards in grading, grading should not be capricious or biased, but reflect the standards operative in the course. This document outlines the procedure to follow if a student in a Women's Studies course disputes a grade.

I. Required Informal Process

1. Students are required to present the dispute to the instructor and obtain a response. While the process may begin with a GSI, the student must have had a meeting or other communication with the instructor before moving proceeding to the next step.
2. If the grievance is against the department Chair or the Director of Undergraduate Studies (DUS) in her capacity as an instructor, another faculty member shall be designated to handle the grievance.
3. If the student and the instructor are unable to resolve the complaint they must meet with the Women's Studies Department Director of Undergraduate Studies or designate and discuss the complaint. The DUS or designate shall mediate between the student and the instructor, either via email or in person, and resolve the matter if possible. If mediation is not successful, the student may file a formal grade grievance with the Women's Studies Department.

II. Formal Grade Grievance Process

1. Students may not begin the formal grievance process until a final grade has actually been assigned in a course.
2. The student may decide to drop the grievance at any time in the process.
3. All proceedings of the grade grievance process will be treated as strictly confidential by all concerned.
4. The formal grievance process begins with a written complaint from the student, which must be filed with the instructor and the Women's Studies Department office within a month after receipt of the grade or a month into the following full term. The written complaint must explain the student's reasons for requesting a change in grade.
5. The instructor must reply in writing within three weeks of receipt of the complaint and file the reply in the Department Office. If the instructor is on leave or away from campus, all reasonable attempts should be made to contact her/him. If the instructor is off campus the director may solicit a letter from her/him, in which s/he describes his/her position. This letter must state reasons for the assignment of the grade in question.
6. After receiving this information from both the student and the instructor, the Director of Undergraduate Studies (DUS) will then determine if sufficient evidence exists to convene a formal review by a departmental committee. If the DUS determines that there is insufficient evidence for the grade grievance, the matter is considered closed, and the original grade stands.
7. If there is sufficient evidence to proceed, the DUS will then promptly arrange a formal review. The review committee will be drawn from the Women's Studies Executive Committee and will include two student representatives, two instructors, and the DUS or designate. Alternates may be chosen at the discretion of the Director of Undergraduate Studies. An effort will be made to ensure that the review committee is fair in the eyes of both parties. The committee should not include students in the class in question or a class currently taught by the instructor. At least one person at the same level as the complainant (undergraduate or graduate student) should be on the committee.
8. The Director of Undergraduate Studies shall schedule the hearing in consultation with the student and set a date and time agreeable to all. Alternates may be used for the student and instructor representatives if any of them are unable to attend. Hearings may be rescheduled for emergencies or other critical scheduling problems only. If a student complainant does not appear for the hearing on the scheduled date and there is no such reason for rescheduling, the hearing will not be rescheduled.
9. Should the departmental review take place during the summer months and student representatives are not available, the student placing the grievance has the option of waiving the

presence of student representatives at their level or of asking that the committee wait until the fall term when students are available.

10. The Director of Undergraduate Studies or designate will chair the hearing.
11. Only the grievance stated in the written complaint will be considered by the grade grievance committee.
12. The instructor and the student should appear before the committee at the same time. They will each present an oral statement in addition to the written statement. Committee members may ask questions of both. The student and faculty member will each be allowed one rebuttal after the complete statement of the other is given. Each may call a reasonable number of witnesses who may make brief statements after the oral statement of the person they are supporting. Witnesses must leave the hearing after they make their statement. Advisors or counselors may not be present for either party.
13. All disputed course work and correspondence will be made available to the complainant, the instructor, and members of the review hearing. It is the student's responsibility to produce the original copy of all disputed course work. If the original work has not been returned to the student, it is the responsibility of the instructor to produce the original work. In addition, it is the responsibility of the instructor to produce all grading records and grading policies. The committee is free to hear any evidence that will help them decide the grievance. The committee may call for other evidence as it pertains to the case.
14. The sole ground for disputing a grade within the Women's Studies Department is that it reflects inequitable conduct on the part of the instructor of the course. The grade grievance panel is tasked solely with deciding whether the instructor displayed inequitable conduct in the situation presented.
15. If the committee determines that the instructor has displayed inequitable conduct, it should issue a written recommendation to the instructor to change the grade.
16. If the instructor refuses, the review committee will prepare a letter setting forth its view to be entered in the student's file.
17. If the review committee finds that the instructor has not displayed inequitable conduct, then the grade stands.
18. A faculty member on the committee shall communicate the decision to the student and the instructor separately at the end of the proceedings.

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-term freshmen 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.

Honors at Graduation

Distinction

The College acknowledges the superior academic achievement of its students in a variety of ways. These include the awarding of departmental academic awards, university honors, honors at graduation, election to national honor societies, the LSA Current Student Scholarships, and special awards. Transfer credit does not count for honors.

Distinction is the LSA equivalent of what many other colleges and universities refer to as a "Dean's List." Degrees with distinction are awarded on the basis of rank in class. Students who have completed at least 58 credits in residence, at least 45 of which are "graded" (A+ to D-), and rank in the top three percent of their class are recommended for a degree "with Highest Distinction." Those students who rank in the top 10 percent of their class but not in the top three percent are recommended for a degree "with High Distinction." Those students who rank in the top 25 percent of their class but not in the top 10 percent are recommended for a degree "with Distinction." A notation is made on the diploma and the transcript. [The GPA ranges for the](#)

[distinction notations](#) are determined each May, based on the cumulative GPAs of LSA graduates of the May degree period. Those same numbers are used for the August and December degree periods of that calendar year. A [record of historical distinction levels](#) is also maintained by the Newnan Academic Advising Center.

2019 Distinction Ranges for Winter, Summer, and Fall Term Graduates:

- Highest Distinction: 3.957 – 4.000
- High Distinction: 3.865 – 3.956
- Distinction: 3.722 – 3.864

Highest Honors, High Honors, Honors

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.

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](#).

Please Note: The honors and awards for superior academic achievement described on this page should not be confused with the LSA Honors Program. Information about that program can be found [on their website](#).

Historical Distinction Levels

May, August, and December 2022 graduates (excluding Winter 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 Winter 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 Winter 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 3.7

Dean's Certification Forms

A "Dean's letter" might be called a Dean's recommendation, or certification, or letter of good standing. Dean's letters are sometimes required by professional schools or professional associations, as well as by prospective employers. Some transfer or study abroad applications require them as well. The forms usually say something like: "To be filled out by college dean or official."

If the 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 need to see an academic advisor in the Advising Center to discuss your program goals and plans. Otherwise, click [here](#) for the form.

Note, as the form tells you, that processing can take up to two weeks at periods of peak demand. Also remember to include a **stamped, addressed envelope** for each form you want sent out. Failure to do so will cause a significant delay in processing and mailing, especially during high-volume periods.

LSA International Travel Policy

The University of Michigan has set forth basic international travel requirements as part of the [UM SPG 601.31](#). In November 2016, the College of Literature, Science, and the Arts set forth additional provisions as part of the "LSA International Travel Policy." All members of the LSA community must comply with this policy. Any person (whether UM-affiliated or not) who may receive funding from an LSA unit or participates on an LSA-organized experience is also encompassed under this policy.

Students, faculty, and staff may not travel **nor can funds be released from LSA departments** until all requirements of the LSA Travel Policy have been met.

These provisions go beyond those elaborated in the UM International Travel Policy and are intended to facilitate communication with and locating our travelers in an emergency, such as a natural or political critical incident. The full text of the LSA Travel Policy can be found at the link below:

[LSA International Travel Policy](#) *(last revised October 2018)*

Additional Information

Travel compliance and international health & safety concerns for the College of LSA will be coordinated by the LSA International Travel team, who are stationed within the CGIS office (200 Weiser Hall).

Please visit the new LSA Travel website (<http://lsa.umich.edu/lsatravel>) for more information and resources. Please note this page is live but still under construction. If you have any questions,

please feel free to contact LSATravel@umich.edu.

LSA Departments and Programs: Majors and Minors

This document is an unofficial representation of the information available on the LSA website. For official and updated information, please view the LSA website:

<http://lsa.umich.edu/lsa/academics/majors-minors>

Majors and Minors

Over 75 academic units in LSA combine to provide over 85 majors, subplans, and other degree programs as well as over 100 minors. 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 of Science in Chemistry](#) and 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 effect your career possibilities? Visit "[What Will You Do with an LSA Degree?](#)" to see what LSA alums are up to now and the 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](#).

Actuarial Mathematics Submajor

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.

[Mathematics \(Major\)](#)

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 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 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.

Actuarial Mathematics (Sub-Major)

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 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 Actuarial Mathematics Submajor

MATH 215&217, 255&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 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.

Afroamerican and African Studies Major

Majoring in Afroamerican and African Studies will allow you to develop a comprehensive understanding of African 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 (daasadvsing@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:
 1. AAS 200: Introduction to African Studies
 2. AAS 201: Introduction to African American Studies
 3. 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

Prerequisites

None.

Requirements

Minimum Credits: 28

1. **Core course:** AMCULT 300 (275): 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).

Constraints

No more than 9 credits at the 200 level (not including AMCULT 275) 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 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 an overall grade-point average of 3.5 or higher 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).\

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 can set up advising appointments for any of the program's major or minor plans by visiting <http://lsa.umich.edu/ac/undergraduates/advising.html>.

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, Linguistic Anthropology, and Sociocultural Anthropology. This holistic approach serves Anthropology's intellectual goal to achieve a comprehensive and comparative understanding of humanity. An undergraduate major in Anthropology contributes to a liberal arts education, offering a disciplined awareness of human behavior and social institutions in different times and places.

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:**
 - ANTHR BIO 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, ANTHR BIO, 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, ANTHR BIO, 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 (ANTHR BIO 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.

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.

Applied Statistics Minor

The Applied Statistics minor program introduces students to applied statistical methodology. The minor provides students with an appreciation for the tools that enable them to be involved in the design and analysis of quantitative studies as part of their professional careers or for pursuing graduate studies in quantitative fields.

Effective Winter 2022

Exclusions:

The academic minor in Applied Statistics is not open to students with a Statistics or Data Science major or any other minor in Statistics.

Advising

Most statistics courses are elected after taking an introductory course (DATASCI 101, STATS 206,

STATS 250, STATS 280 or STATS 412) and completing an introductory mathematics sequence. Students wishing to pursue a minor in Statistics must develop a specific plan for its completion in consultation with a Statistics Department undergraduate department advisor. See Department website for contact information: lsa.umich.edu/stats/undergraduate-students/advising

Prerequisites

MATH 116 or 121.

Requirements

Minimum Credits: 15

1. **Core Courses:** (DATASCI 101 or STATS 280 or STATS 206 or STATS 250 or STATS 280) and STATS 306 and STATS 401.
2. **Elective Statistics Courses:** At least two advanced electives. These may be STATS 403, 408, 449, 470, 480 or other approved courses. One elective may be a quantitative methods course with advanced statistical content offered by another department, with approval from a Statistics Department undergraduate advisor.

Constraints

- STATS 412 can be used to meet the core requirement (DATASCI 101 or STATS 206 or STATS 250 or STATS 280) but cannot be used as an elective.
- The following courses may not be used as electives for the Applied Statistics minor: STATS 404, 489 and 499.

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.

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

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 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 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 / WGS 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 / WGS 492: Women and Islam: A Sociological Perspective
- UC 218 / SOC 218: Foundations of Intergroup Relations
- WGS 492 (WGS 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.

Stamps 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 or transfer credits may not be used to meet the requirements of the 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

How to Earn a Minor in Art & Design

Step One

- Attend a [Minor in Art in Design info session](#), held online twice a month.
- Set up a Minor Advising appointment with Kristy Watkins via [Google Calendar](#).
- Questions? [Contact Stamps Minor Advisor Kristy Watkins](#).

Step Two

Complete two 3-credit courses, one from either Group A or Group B category:

- A. **Drawing Studio:** 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 *one* of these courses, you're ready to declare your minor by completing the [Minor Declaration Form](#). That form indicates that you've taken the first prerequisite course, discussed the Art & Design Minor with a Stamps advisor, and established a plan of study. Completion of the minor will require that you also take a second 100-level studio, taken from the alternate group. Note: Although most students complete both 100-level courses before taking courses at the 200- or 300-level, the order of courses may be flexible. For example, you can choose to enroll in a 200-level course right after your first 100-level studio if you've completed the prerequisites for that 200-level course.

Step Three

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 (6 credits).**
Options 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.

200-level studio courses offered outside the Stamps School can also count toward this requirement. These options include:

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 (3 credits).**

Options include [ARTDES 300 - 397](#), a variety of more advanced, project-based courses where you can apply and refine the skills acquired in introductory classes. 300-level studio courses offered outside the Stamps School can also count toward this requirement. These options include:

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 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), selected from the following:**

ARTDES 150: Art and Design in Context
ARTDES 151: Art and Design History
ARTDES 130: Methods of Inquiry
ARTDES 160: Penny W. Stamps Lecture Series (1 credit/semester for 3 semesters)
HISTART 271: Origins of Modernism: Art and Culture in Nineteenth Century France
HISTART 272: Modern Art: Avant-Garde to Contemporary

Art/design-related courses offered by other University of Michigan units can also apply to the minor. Only courses offered by the University of Michigan can count toward the minor. No

exceptions.

Step Four

Complete the [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.

Arts & Ideas in the Humanities Major

The Arts and Ideas major allows students to immerse themselves in two or more Arts and Humanities disciplines with rigor, care, and attention, and then combine them in an interdisciplinary program of study. Our flexible major guides you to combine theoretical and historical study in the humanities (literature, history of art, music, film, dance) with your own artistic practice. In other words: you don't just think and write about the arts, you do the arts. Your thinking is enriched by the doing, and the doing is enriched by the thinking. The Arts and Ideas major will give you skills of critical analytic writing and attentive looking, reading, and listening that are essential in any profession. Further, its integrated approach to the arts prepares students for careers in arts development and administration. A&I majors have found jobs as doctors, teachers, arts and academic administrators, among others.

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 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 - Cultural Confrontations in the Arts

RCHUMS 306 - History of Writing

RCHUMS / ASIAN 308 - Art and Culture: Arts and Ideas of Modern South and Southeast Asia

RCHUMS 318 - Critical Approaches to Literature

RCHUMS / ENVIRON 337 - Children Under Fire: Narratives of Sustainability

RCHUMS 338 - Growing Up Near the Great Lakes, section titled, "Reading and Writing Landscapes of Childhood"

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 371 - Political Modernism, section titled, "The Artist in the Nightmare of History: Picasso, Eliot, Orwell"

RCHUMS 372 - The Subject in the Aftermath of Revolution

RCHUMS / ASIAN 373 - The Performing Arts in South and Southeast Asia

RCHUMS 410 - Upperclass Literature 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 a number of 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 (i.e., 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

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.

Course Requirements

30 credits at the 200-level and above, 15 of which must be at the 300-level or above. The plan for the major is designed in consultation with and approved by, a department advisor.

Submajor 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.

Residency

At least 15 credits of the 30 required credits must be taken 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 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 the appropriate Honors course(s). 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

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 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 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
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.

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 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, CHEM351.
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 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 Biochemistry: This degree program is ideal for students who are interested in learning about life from a chemical perspective. 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. 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.

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 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.

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.

Biological Physics 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 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](#)

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.

Biological Physics Track (Sub-Major)

Effective Winter 2020

Prerequisites

- Math 115 and 116
- Math 215 and 216; *or* Chem 262
- Chem 210/211 and 215
- Physics 135/136 and 235/236 *or* 140/141 and 240/241
- Bio 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 / PHYSICS 290: Physics of the Body & Mind
2. BIOPHYS / CHEM / PHYSICS 370: Physical and Chemical Principles behind Biology and Medicine
3. BIOPHYS / CHEM / PHYSICS 417: Dynamical Processes in Biophysics
4. BIOPHYS / PHYSICS 450: Biophysics Laboratory
5. BIOPHYS 495: Senior Seminar in Biophysics

Outside Core:

1. CHEM / BIOLCHEM 351: Fundamentals of Biochemistry

Electives:

Two 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.

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.

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 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), 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; 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; 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 222, 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 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, 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 207, 226, 230, 252, 255, 288; EEB 300*, 313, 320, 321, 330, 341, 348, 372, 381, 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.)*

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; 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.

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) 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 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 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 207, 226, 230, 252, 255, 288; EEB 300*, 313, 320, 321, 330, 341, 348, 372, 381, 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 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) 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 should 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.

The Biomolecular Sciences major is designed to provide 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 limited set of electives drawn from course offerings in chemistry, biophysics, and molecular, cellular and developmental biology. 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 should 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.

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 2022

Exclusions:

Students who elect a major in Biomolecular Science may not elect the following majors: Biology, General Biology; 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 [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

- 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 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.

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 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 302, 303, 331, 341, 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, 478, (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
 - 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
 - *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*", 463, 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.

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 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, 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.

The Ross Business Minor curriculum provides a strong understanding of business fundamentals, including those in accounting, finance, marketing, and strategy. Like all Ross courses, Business Minor courses are action-oriented. That means you won't just hear about business concepts — you'll get to experience them, through interactive projects and group work.

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 300 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)
- [MKT 411 Advertising Management](#)
- [MO 456 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 credits. 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 this list is subject to change.

[Electives](#)

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; 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; 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, 399, 412, or 499)
- Genetics: BIOLOGY 305
- Biochemistry: Choose from: MCDB 310, BIOLCHEM 415, or CHEM 351
- Genetics Laboratory: BIOLOGY 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, 435, 436, 440, 441, 444, 448, 450, 452, 453, 454, 455, 456, 457, 458, 459, 462, 463, 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.

Central Eurasian 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

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.

Students pursuing a REES minor must discuss their plans and course elections with the CREES undergraduate academic advisor. Appointments are scheduled online at www.ii.umich.edu/crees.

Prerequisites

None.

Requirements

Minimum Credits: 15

At least 15 credits of courses on Central Eurasia, selected in consultation with and approved by

the Slavic undergraduate academic advisor.

1. REEES 340/HISTORY 340/AAPTIS 340/ASIAN 340/MENAS 340: From Genghis Khan to the Taliban: Modern Central Asia.
2. Disciplinary distribution: at least one 3-credit course in each sub area (arts/culture, history, and social science).

A minimum of three courses that will be counted toward the academic minor must be upper-level (300- or 400-level).

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 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 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.

Chemistry Minor

The Chemistry minor provides a broad and general exposure to the traditional areas of the chemical sciences.

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.

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.

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 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 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 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 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 academic minor is designed to provide a grounding in ancient Greek and Roman civilization for those unable to elect Classical Civilization as a major. It requires students to learn about the history, literature, religion, philosophy, and material culture of ancient Greece and Rome, primarily through the close reading and analysis of original Greek and Latin texts in translation. Confrontation with how people lived and thought in ancient Greece and Rome allows students to gain an understanding of the relation between the ancient and modern world in all its complexity, and gives them valuable intellectual tools to deal with issues in many aspects of modern life. Courses in Classical Civilization also enhance students' ability to think critically and improve their competence in written and oral communication.

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 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 and Space Sciences and Engineering (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@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

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, *section titled "Reinforcement Learning"*
- EECS 498: Special Topics, *sections entitled "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
- LING209 / 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
- PHIL 303: Symbolic Logic
- PHIL 340: Minds and Machines
- PHIL 383: Knowledge and Reality
- PHIL 414: Mathematical Logic
- 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" or "Introduction to Neural Circuits"*
- 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

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 FA 20 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"*
- 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"*
- 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 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 (only if elected WN21 or later)
- 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*)

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
4. 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 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, *sections titled "Language Variation and Social Cognition" or "Perspectives on Bilingualism" or "Introduction to Neurolinguistics" or "Topics in Neurolinguistics" or "Sign language Linguistics" or "Computation and Data Science for Linguistics" (only if elected FA19 or later).*
- 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 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

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
2. OR
PSYCH 345: Introduction to Human Neuropsychology
3. PHIL 340: Minds and Machines
4. OR
PHIL 482: Philosophy of Mind
5. PHIL 303: Introduction to Symbolic Logic
6. 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 FA 20 or later)
- COGSCI 497: Directed Research for Cognitive Science
- COGSCI 498: Independent Study for Cognitive Science
- COGSCI 499: Senior Honors Research for Cognitive Science
- HISTORY 265: Minds & Brains in the U.S. (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
- 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 443: Foundations of Rational Choice Theory
- PHIL 444: Groups and Choices (only if elected WN20 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 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 WN20 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

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.

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 mission of the Communication and Media major is to study and teach about the mass media and emerging media: their evolution, their effects, their uses by everyday people, and their regulation and industry practices. We are dedicated to cultivating thorough-going media literacy among our students, and to producing cutting-edge scholarship about the media's impact on individuals and society.

Communication and Media focuses on history, content and impact of mass media and new, emerging media. Four crucial reasons for studying mass media:

- Enormous influence on our culture and those around the world
- Role in shaping our individual and collective identities (including our attitudes toward others)
- Centrality to everyday life, politics, the economy, and public policy
- Impact on democratic institutions

Key elements of the major are:

- Introductory classes taught by world-renowned faculty
- Small, upper-level seminars examining a range of issues like impact of mobile communications, gender and media, media and public opinion, health and media, media and globalization, media effects on individuals and society
- Emphasis on critical thinking and writing
- Opportunity to include [study abroad](#), research and transfer credit towards major elective requirement
- A Senior Thesis Program that is providing unique support to students interested in pursuing and presenting their own research
- Combining classroom training with internship opportunities in a variety of media-related fields
- Opportunity to learn about careers and network with outstanding U-M alumni through our Career Exploration events.

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 COMM350-399 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.

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)

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 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 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 \(GEH\)](#)

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.

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 Literature Major

The major in Comparative Literature provides excellent preparation for professional studies in fields such as law, journalism, and business, as well as preparation for graduate work in the humanities.

Undergraduate majors will establish individualized programs of study in close consultation with a faculty advisor. These programs will offer students the opportunity to increase skills in analytical reading and argumentative writing and to develop an understanding of the interrelationships among several literary traditions. Students who concentrate 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 the theory of literature. 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

Foreign languages necessary for the study of foreign literature courses at the 300-level.

Requirements

Minimum Credits: 33

- 24 credits: A complementary grouping of literature courses at the 300-level or above in a minimum of two languages, one of which may be English. At least 12 credits are required in each literature.
- If a student chooses to work in English as one of the chosen languages, then a maximum of 18 credits of undergraduate courses in COMPLIT may be applied to the major, of which the maximum number of credits at the 200-level is six. Students may also combine with courses in COMPLIT other courses in the national literature departments and related fields, in consultation with the department advisor. 100-level courses do not count toward the major.

- 3 credits: The senior seminar, COMPLIT 495, is required for all students in the major.
- 6 credits: Comparative Literature electives at the 200 level or above. COMPLIT 496 (3 credits), for those writing an Honors thesis during the last term may be used. (Maximum of 6 credits of 200-level COMPLIT courses may be used in the major.)

Courses will be chosen in consultation with the department advisor in Comparative Literature based on a robust theoretical or organizational principle.

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

Over the past twenty years, 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, government and private sector demand for students with skills in modeling, understanding of systems level thinking, and deep understandings of the roles of networks and diversity grows.

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 book club meetings run by CSCS. This will provide an opportunity for undergrads to engage intellectually with students and faculty from a range of fields.

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 upper-level courses in complex systems within one of four areas of focus: (1) social sciences, (2) biological science, (3) physical science and engineering or (4) complex systems theory and methods.

- 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.
 - o CMPLXSYS 270: Introduction to Agent-Based Modeling (ABM)
 - o CMPLXSYS 281 / POLSCI 381: Applied Complex Systems: Emergent Challenges
 - o CMPLXSYS 501: An Introduction to Complex Systems
 - o 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 260 / SOC 260: Tipping Points, Bandwagons and Cascades: From Individual Behavior to Social Dynamics
 - EECS 594: Introduction to Adaptive Systems *section titled "Complexity & Emergence"*
 - HONORS 493: College Honors Seminar *section titled "Complexity & Emergence"*
 - MATH 217: Linear Algebra
 - MATH 425 / STATS 425: Introduction to Probability
 - 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 430 Modeling Infectious Diseases
 - 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 NonlinearSystems
- MATH 559: Selected Topics in Applied Mathematics *section titled "Computationand Neuroscience"*
- PHYSICS 580 / CMPLXSYS 520 / MATH 552: Empirical Analysis of NonlinearSystems
- 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 2012

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, 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.

Requirements

At least 27 credits must be upper-level.

1. **Core Courses:**
 - a. *Computer Science*: EECS 281, 370, 376.
 - b. *Probability and Statistics*: STATS 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 CS Minor.

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

The [Residential College's Creative Writing and Literature Major](#) combines the sustained, disciplined practice of writing with the serious study of literature. The main goal of the program is to help students develop their creative abilities through a continuous, interrelated cycle of writing, rewriting, and literary analysis. Creative writing courses are taught as workshops and tutorials in which students work individually with faculty members. Students are required to take courses in literature in order to understand better the art of writing.

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: 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"*
 - THREMUS 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,

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 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 behavioralanalytics, financial analytics
 - 400+ level courses in bioinformatics (specify: is this bioinformatics courses inany 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 andEpigenomic 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
- o EECS 388: Introduction to Computer Security
- o EECS 442: Computer Vision
- o EECS 467: Autonomous Robotics
- o EECS 477: Introduction to Algorithms
- o EECS 484: Database Management Systems
- o EECS 485: Web Database and Information Systems
- o EECS 492: Introduction to Artificial Intelligence
- o EECS 498: Special Topics (approved sections only. By default, EECS 498 sections will not count towards the Data Science advanced technical electives)
- o EECS 4xx: Data Science and Healthcare
- o EECS 4xx: Data Science and Human Behavior and Emotion Analytics
- o EECS 545: Machine Learning
- o EECS 549 / SI 650: Information Retrieval
- o IOE 310: Introduction to Optimization Methods
- o MATH 463 / BIOINF 463 / BIOPHYS 463: Mathematical Modeling in Biology
- o MATH 547 / STATS 547 / BIOINF 547: Probabilistic Modeling in Bioinformatics
- o MATH 548 / STATS 548: Computations in Probabilistic Modeling in Bioinformatics
- o SI 639: Web Archiving
- o SI 649: Information Visualization
- o SI 650 / EECS 549: Information Retrieval
- o STATS 403: Introduction to Quantitative Research Methods
- o STATS 406: Introduction to Statistical Computing
- o STATS 414: Special Topics in Statistics, section titled “ Introduction to Bayesian Data Analysis”
- o STATS 426: Introduction to Theoretical Statistics
- o STATS 449 / BIOSTAT 449: Topics in Biostatistics
- o STATS 470: Introduction to Design of Experiments
- o STATS 480: Survey Sampling Techniques
- o STATS 508: Statistical Analysis of Financial Data
- o STATS 531: Analysis of Time Series
- o STATS 545 / BIOINF 545 / BIOSTAT 646: High Throughput Molecular Genomic and Epigenomic Data Analysis
- o STATS 547 / MATH 547 / BIOINF 547: Probabilistic Modeling in Bioinformatics
- o 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.

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.

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 Global and Applied Geophysics
- EARTH 315 Earth Materials
- EARTH 351 Earth Structure
- EARTH 412 Geochemistry of the Solid Earth

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

3. Upper-Level Analytical Methods Courses:

- EARTH 408 Introduction to GIS
- EARTH 444 Analytical Paleobiology
- EARTH 455 Determinative Methods
- EARTH 468 Data and Model

4. Field Experience Requirement

- EARTH 440 Geology Field Methods (Students interested in completing EARTH 440 are strongly encouraged to complete EARTH 305 and 351 prior to taking EARTH 440.)

5. 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

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.

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 Global and Applied Geophysics
- EARTH 315 Earth Materials
- EARTH 351 Earth Structure
- EARTH 412 Geochemistry of the Solid Earth

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 take either EARTH 119&118 or 116 or 120 AND EARTH 201 or 202 or 219, or ENVIRON 209 or 202 or 229 or 281, or BIOLOGY 281. 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 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](#).

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

Slavic Languages and Literatures offers an interdisciplinary minor to students who wish to:

- a. better understand the history and culture of Central and Eastern Europe and
 - b. gain insight into the political, economic, and social transitions taking place in this region.
- The minor in East European Studies does not have prerequisites or require knowledge of

a language of the region.

Effective Fall 2019

Exclusions:

Not open to those electing a major or another minor in Russian, East European, and Eurasian Studies.

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 East European topics, selected in consultation with and approved by the Slavic undergraduate academic advisor. A minimum of 3 courses that will be counted toward the minor must be upper-level (300- or 400-level).

1. REEES 396 or REEES 397
2. *Disciplinary distribution:* At least one 3-credit course in each sub-area (arts/culture, history, and social science).

Constraints

Bosnian/Croatian/Serbian, Czech, Polish, or Ukrainian language courses may not count toward the minor.

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 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 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 207, 226, 230, 252, 255, 288; EEB 300*, 313, 320, 321, 330, 341, 348, 372, 381, 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 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), 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, 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

- o EEB/MCDB 300/400, 301, 302, 397, 399, 499, 800, MCDB 412 (*if elected WN20 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.
 - o BIOLOGY 241, BIOLOGY 299, EEB/MCDB 301, EEB/MCDB 302, EEB/MCDB 800, MCDB412, and non-specific (departmental) transfer courses are EXCLUDED.
- A maximum of two approved cognate courses may be used as additional courses: ANTHRPIO 365, 368, 461, BIOLCHEM 415*; BIOMEDE 231; BIOPHYS 290; CHEM 230 and above*; CLIMATE 320; CMLXSYS 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 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 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, 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.

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 outside of the EECS department, 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

- Takes a minimum of 15 credits to complete
- Open to all non-EECS majors

- Choose from a wide range of electives (28 courses!)

For more information about the structure of this program, see the guide below:

<https://ece.engin.umich.edu/wp-content/uploads/sites/4/2019/08/EEMinor.pdf>

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 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 following paragraphs describe typical patterns of study in the department and indicate the various ways in which a student can, with much opportunity for individual initiative, form a challenging and rewarding major within it.

Effective Winter 2018 – Summer 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.
- Two courses from ENGLISH 397 (or 497), 450 or 451.
- 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 English Minor is designed to help students develop a broad understanding of the social, cultural, historical, and formal aspects of English language and literature. It provides a foundation in literary and cultural analysis, develops skills in presenting complex ideas orally and in writing, and develops knowledge of British, American, and Global Anglophone literary traditions.

Effective Fall 2018 – Summer 2023

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 323, 324, 325, 327, 328, 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

This 15-credit minor equips undergraduate students from any background or area of study with the necessary skills and experience to translate ideas into real impact in the arts, sciences, commercial, and social areas.

The Entrepreneurship Minor is open to all undergraduate students, no application is required. Students who wish to pursue the minor should schedule an advising appointment (see [information on this page](#) for appointment scheduling).

Student criteria:

- Sophomore standing and above
- Declared major
- In good academic standing

Entrepreneurial education is focused on equipping students to “Be The Difference.” It is therefore a truly multidisciplinary activity that includes teachings from a variety of disciplines and focuses at its core on an approach that values immersive experiences.

Interested students should email EntrepreneurshipMinor@umich.edu for more information.

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 118: Introductory Geology Laboratory **AND** EARTH 119: Introductory Geology Lectures; or
 - EARTH 116: Introductory Geology in the Field

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 / HISTORY 236: Environment and History in Preindustrial Europe (*only if taken FA17 or later*)
- ENVIRON 290: Food: The Ecology, Economics, and Ethics of Growing and Eating
- HISTORY 232: Interdisciplinary Topics in History, *section titled "Histories of GlobalHealth" (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
 - ENVIRON / EEB 381: General Ecology at UM Biological Station; or
 - EARTH / ENVIRON 450: Ecosystem Science in the Rockies at Camp Davis, Wyoming
2. **Analytics** (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*
 - ANTHR BIO 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 (WGS 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.

Teaching Certificate

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
- 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 "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 (WGS 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.

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 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

To have a notation of the Ethnic Studies submajor appear on your transcript, you must successfully complete the following in your American Culture 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.

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

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

- ANTHR BIO 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, ANTHRBI0 471-
*sections titled "Miocene Hominoid Palebiology" or "Paleocology and
PaleodietaryReconstructions"*
 - 2. Ecology and behavior:**
ANTHRBIO 342, 361, 362, 368, 373, 461, 463, 467, 468, 472, 478, ANTHRBI0 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, ANTHRBI0 471 -
section titled "Molecular Anthropology"
*Courses taken as ANTHRBI0 469: Topics in Biological Anthropology, or graduate-
leveltopics 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 ANTHRBIO 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*)

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 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 ModernWorld (*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 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 324 / COMM 251 - Understanding Media Industries
- 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 (WGS 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 (WGS 461) - Explorations in Feminist Film Theory
- FTVM 475 – Popular Film and TV Culture
- FTVM 485 - The Global Screen

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.

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 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
 - ANTHR CUL 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 2021

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.

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 3.5 in all courses, as well as 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 doorsto 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 this course taught in English 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 allows 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 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 (WGS / NURS 220). Perspectives in Women's Health

Requirements

Minimum Credits: 33

I. Core:

- A. **Feminist Theory Seminar.** One of the following:
- WGS 330 (WGS 330): Feminist Thought
 - WGS 331 (WGS 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 (WGS 350): Nonprofit Management, Community Engagement, and Feminist Practice
 - WGS 351 (WGS 351): Leading Feminism (W17)
 - WGS 384 (WGS 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.
 - WGS / 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 course 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 (WGS) / AMCULT 239: Gender, Sexuality, and Health in America
 - WGS 305 (WGS 305) / ALA 306: Interdisciplinary & Intersectional LGBTQ Health
 - WGS 314 (WGS) / ENGLISH 314: Gender and Sexuality Studies in Literature, *section titled "The Culture of AIDS"*
 - WGS 352 (WGS) / ASIAN 352: Gender, Sex & Power in Pre-Modern China (F19)
 - WGS 394 (WGS) / PSYCH 394: Sex, Sexuality, and Public Policy
 - WGS 407 (WGS 407): Intersexualities
 - WGS 432 (WGS 432): Advanced Topics in Gender & Health, *section titled "Diagnosis, Sex & Society"*
 - WGS 449 (WGS 449) / SOC 445: Diagnosis, Sex & Society
 - WGS 452 (WGS 452) / PSYCH 414: Sexuality and Science
 - WGS 494 (WGS) / 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 (WGS) / AMCULT 233: Genes and Society: Comparative and International Perspectives
 - WGS 239 (WGS) / AMCULT 239: Gender, Sexuality, and Health in America
 - WGS 291 (WGS) / PSYCH 291: Introduction to Psychology of Women and Gender
 - WGS 305 (WGS 305) / ALA 306: Interdisciplinary & Intersectional LGBTQ Health
 - WGS 343 (WGS 343): Special Topics in Gender, Race, and Ethnicity in the U.S. (*certain topics*)
 - WGS 356 (WGS 356) / AMCULT 331 / HISTORY 356: Health in America: Patterns, Experiences, and Inequalities
 - WGS 365 (WGS) / HISTORY 365 / AMCULT 331: Critical Race & Ethnic Studies in Health (W19)
 - WGS 443 (WGS) / 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 (WGS) / AMCULT 233: Genes and Society: Comparative and International Perspectives
 - WGS 296 (WGS) / HISTORY / PSYCH 296: Gender, Sex Differences, and Addiction: Girls Gone Wild
 - WGS 300 (WGS 300): Men's Health

- WGS 342 (WGS 342): Special Topics in Gender and Health, *section titled "Biomedical Knowledge: Behavior, Science and Gender"* (only if elected WN20 or later)
 - WGS 400 (WGS 400): Women's Reproductive Health
 - WGS 407 (WGS 407): Intersexualities
 - WGS 432 (WGS 432): Advanced Topics in Gender and Health, *section titled "Gender and Contested Illness"* (only if elected WN20 or later)
 - WGS 452 (WGS 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 / NURS 225: Global Perspectives on the HIV and AIDSEpidemic
 - WGS 233 (WGS) / AMCULT 233: Genes and Society: ComparativeandInternational Perspectives
 - WGS 239 (WGS) / AMCULT 239: Gender, Sexuality, and Health inAmerica
 - WGS 242 (WGS) / AMCULT 242: Gender and Violence in a GlobalContext
 - WGS 296 (WGS) / HISTORY / PSYCH 296: Gender, SexDifferences, and Addiction: Girls Gone Wild
 - WGS 307 (WGS 307) / ANTHRCUL / RCSSCI 327: Critical Theory inMedicine and Healing
 - WGS 324 (WGS 324) / ANTHRCUL 325: Childbirth & Culture
 - WGS 328 (WGS) / AAS 328: Women, Agency and Sexual Safety
 - WGS 342 (WGS 342): Topics in Gender & Health, *section titled "Histories of Women, Medicine and Reproduction"* (F17) or *"BiomedicalKnowledge: Behavior, Science and Gender"* (only if elected WN20 or later)
 - WGS 345 (WGS 345): Topics in Gender in a Global Context, *section titled "Sexual Violence and the State"* (F17)
 - WGS 352 (WGS) / ASIAN 352: Gender, Sex & Power in Pre-Modern China (F19)
 - WGS 356 (WGS 356) / AMCULT 331 / HISTORY 356: Health in America: Patterns, Experiences, and Inequalities
 - WGS 365 (WGS) / AAS 365: Global Perspectives on Gender,Health,and Reproduction
 - WGS 432 (WGS 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 WN20or later)
 - WGS 438: Gender, Health, and Well-being in Africa

- 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 (WGS) / PSYCH 225: Psychology of Human Sexuality
- WGS 291 (WGS) / PSYCH 291: Introduction to the Psychology of Women and Gender
- WGS 313 (WGS 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 (WGS 342): Special Topics in Gender and Health
- WGS 402 (WGS 402): Gender and Health Policy
- WGS 410 (WGS 410): Reproductive Justice: Legal and Ethical Issues
- WGS (WGS) / SM 421: Gender and Sport
- WGS 432 (WGS 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 (WGS) / AMCULT 233: Genes and Society: Comparative and International Perspectives
- WGS 239 (WGS) / AMCULT 239: Gender, Sexuality, and Health in America
- WGS 296 (WGS) / HISTORY / PSYCH 296: Gender, Sex Differences, and Addiction: Girls Gone Wild
- WGS 313 (WGS 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 (WGS) / ENGLISH 314: Gender and Sexuality Studies in Literature, *section titled "The Culture of AIDS"*
- WGS 342 (WGS 342): Topics in Gender & Health, *section titled "Histories of Women, Medicine and Reproduction" (F17)*
- WGS 352 (WGS) / ASIAN 352: Gender, Sex & Power in Pre-Modern China (F19)
- WGS 432 (WGS 432): Advanced Topics in Gender & Health, *section titled "Race, 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)*

IV. **Cognate Requirement.** Two courses (for a total of six credits), neither in WGS (or WGS), 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
- ANTHRIBIO / ANTHRCUL 342: Nature/Culture Now!
- ANTHRCUL / ANTHRIBIO 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 WGS) 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 (WGS 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 WGS 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 (WGS 389): Junior Honors Seminar (may also count as an elective)

and the following additional courses:

- WGS 441 (WGS 441): Senior Honors Seminar 1
- WGS 442 (WGS 442): Senior Honors Seminar 2
- WGS 490 (WGS 490): Honors Thesis
- WGS 491 (WGS 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 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](http://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 (WGS) /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).

- WGS 212 / HS 225: Global Perspectives on the HIV and AIDS Epidemic
- WGS 225 (WGS) / PSYCH 225: Psychology of Human Sexuality
- WGS 233 (WGS) / AMCULT 233: Genes and Society
- WGS 239 (WGS) / AMCULT 239: Gender, Sexuality, and Health in America
- WGS 242 (WGS) / AMCULT 242: Gender Violence in a Global Context
- WGS 291 (WGS) / PSYCH 291: Introduction to the Psychology of Women and Gender
- WGS 296 (WGS) / HISTORY / PSYCH 296: Gender, Sex Differences, and Addiction: GirlsGoneWild
- WGS 300 (WGS 300): Men's Health
- WGS 305 (WGS 305) / ALA 306: Interdisciplinary & Intersectional LGBTQ Health
- WGS 307 (WGS 307) / ANTHRCUL / RCSSCI 327: Critical Theory in Medicine and Healing
- WGS 320: Gender and Mental Health
- WGS 324 (WGS 324) / ANTHRCUL 325: Childbirth and Culture
- WGS 328 (WGS) / AAS 328: Women, Agency and Sexual Safety
- WGS 342 (WGS 342): Special Topics in Gender and Health
- WGS 356 (WGS) / HISTORY 356 / AMCULT 331: Health in America: Patterns, Experiences, Inequalities
- WGS 365 (WGS) / AAS 365: Global Perspectives on Gender, Health, and Reproduction
- WGS 394 (WGS) / PSYCH 394: Adolescent Sexuality
- WGS 400 (WGS 400): Women's Reproductive Health
- WGS 402 (WGS 402): Gender and Health Policy
- WGS / HS 404: Gender Based Violence: From Theory to Action
- WGS 405 (WGS 405): Pharma, Pills, & Policy
- WGS 407 (WGS 407): Intersexualities
- WGS 410 (WGS 410): Reproductive Justice: Legal and Ethical Issues
- WGS 412 (WGS 412): Reproductive Health Policy in a Global Context
- WGS (WGS) / SM 421: Gender and Sport
- WGS 432 (WGS 432): Advanced Topics in Gender and Health
- WGS 438: Gender, Health and Well-Being in Africa
- WGS 443 (WGS) / AAS 443: Pedagogy of Empowerment: Activism in Race, Gender, and Health.
- WGS 452 (WGS 452) / PSYCH 414: Sexuality and Science
- WGS 494 (WGS) / PSYCH 494: Adolescent Sexuality
- WGS 498 (WGS) / PSYCH 498: Gender and the Individual
- WGS 499 (WGS) / PSYCH 499: Psychology of Women

Upper-Level Seminars:

- WGS 313 (WGS 313): Topics in Gender & the Humanities, *section titled "Gender and Health in Literature"* (WN19)
- WGS 328 (WGS) / AAS 328: Women, Agency and Sexual Safety
- WGS 331 (WGS 331): Feminist Theoretical Perspectives in Gender and Health
- WGS 342 (WGS 342): Special Topics in Gender and Health
- WGS 345 (WGS 345): Special Topics in Gender in a Global Context, *section titled "Sexual Violence and the State"*

- WGS 350 (WGS 350): Nonprofit Management, Community Engagement, and Feminist Practice
- WGS 351 (WGS 351): Leading Feminism
- WGS 352 (WGS) / ASIAN 352: Gender, Sex & Power in Pre-Modern China (F19)
- WGS 365 (WGS) / AAS 365: Global Perspectives on Gender, Health, and Reproduction
- WGS 374 (WGS 374): Gender, Race and Incarceration (SP19)
- WGS 405 (WGS 405): Pharma, Pills, and Policy
- WGS 407 (WGS 407): Intersexualities
- WGS 410 (WGS 410): Reproductive Justice: Legal and Ethical Issues
- WGS 412 (WGS 412): Reproductive Health Policy in a Global Context
- WGS 438: Gender, Health, and Well-being in Africa
- WGS 443 (WGS) / AAS 443: Pedagogy of Empowerment: Activism in Race, Gender, and Health
- WGS 449 (WGS 449) / SOC 445: Diagnosis, Sex, and Society
- WGS 494 (WGS) / PSYCH 494: Adolescent Sexuality
- SOC 225: Project Community: various specifically approved topics - see department advisor

Courses with a transnational, global, historical perspective:

- WGS 233 (WGS) / AMCULT 233 : Genes and Society
- WGS 296 (WGS) / HISTORY / PSYCH 296: Gender, Sex Differences, and Addiction: Girls Gone Wild
- WGS 319 (WGS 319): Race, Class, and Reproductive Health (W18)
- WGS 324 (WGS 324) / ANTHRCUL 325: Childbirth and Culture
- WGS 327 (WGS) / HISTORY 327: The History of Sexuality
- WGS 328 (WGS) / AAS 328: Women, Agency and Sexual Safety
- WGS 352 (WGS) / ASIAN 352: Gender, Sex & Power in Pre-Modern China (F19)
- WGS 365 (WGS) / AAS 365: Global Perspectives on Gender, Health, and Reproduction
- WGS 412 (WGS 412): Reproductive Health Policy in a Global Context
- WGS 432 (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) or "Biomedical Knowledge: Behavior, Science and Gender" (only if elected WN20 or later)*
- WGS 435 (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)*
- WGS 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 (WGS 240) / AMCULT 240: Introduction to Women's and Gender Studies
 - WGS 250 (WGS 250): Gender, Race, & Nation
2. **Feminist Theory.** One course chosen from:
 - WGS 330 (WGS 330): Feminist Thought
 - WGS 422 (WGS 422) / POLSCI 401: Feminist Political Theory
 - WGS 455 (WGS 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)
 - WGS / ANTHRCUL / NURS 212: Global HIV/AIDS Epidemic
 - WGS 215 (WGS 215) / HISTART / ARCH 216: Contested Spaces: Art, Architecture, Politics (Only if elected FA20 or later)
 - WGS 220 (WGS 220) / NURS 220: Perspectives in Women's Health
 - WGS 233 (WGS 233) / AMCULT 233: Genes and Society
 - WGS 235 (WGS 235) / AMCULT / ARABAM 235: Harems to Terrorists: Representing the Modern Middle East in Hollywood Cinema
 - WGS 239 (WGS 239) / AMCULT 239: Gender, Sexuality, and Health in America
 - WGS 242 (WGS 242) / AMCULT 242: Gender Violence in a Global Context
 - WGS 243 (WGS 243) / AMCULT / LATINOAM 243: Latinas in the U.S.
 - WGS 270 (WGS 270) / SOC 270: Gender and the Law
 - WGS 291 (WGS 291) / PSYCH 291: Introduction to Psychology of Women and Gender
 - WGS 293 (WGS 293) / AMCULT 293: 20th-Century Writing by Women of Color
 - WGS 297 (WGS 297) / PSYCH 297: Promoting Equity and Inclusion in the University and the Workplace (Only if elected FA17 or later)
 - WGS 301 (WGS 301) / ASIAN 301: Writing Japanese Women
 - WGS 302 (WGS 302) / HISTART / ANTHRCUL 302: Sex and Gender in Japan
 - WGS 304 (WGS 304) / AAS 304: Gender and Immigration
 - WGS 305 / ALA 306: Interdisciplinary & Intersectional LGBTQ Health
 - WGS 306 (WGS 306) / AAS 306: Women of Color and Feminism
 - WGS 307 (WGS 307) / ANTHRCUL / RCSSCI 327: Critical Theory in Medicine

- andHealing
- WGS 309 (WGS 309) / PSYCH 309: Psychology of Social Change: Gender andGlobalFeminisms (*Only if elected WN19 or later*)
 - WGS 312 (WGS 312): Queering US Immigration History
 - WGS 318 (WGS 318): Women, Politics, and Society in India
 - WGS 321 (WGS 321): Women's Lives in 20th-Century China
 - WGS 322 (WGS 322): Black Feminist Approaches to Health (*Only if elected FA18orlater*)
 - WGS 323 (WGS 323) / AAS 323 / HISTORY 388: Black Feminist Though andPractice
 - WGS 324 (WGS 324) / ANTHRCUL 325: Anthropology of Childbirth
 - WGS 327 (WGS 327) / HISTORY 327: History of Sexuality
 - WGS 328 (WGS 328) / AAS 328: Women, Agency, and Sexual Safety
 - WGS 329 (WGS 329) / AMCULT 329: Native American Feminism
 - WGS 332 (WGS 332) / ASIAN 342: Gender and Power in Southeast Asia
 - WGS 335 (WGS 335): Gender and Globalization
 - WGS 336 (WGS 336) / AAS / HISTORY 336: Black Women in America
 - WGS 337 (WGS 337) / AAS / HISTORY 337: Black Women in the U.S.
 - WGS 343 (WGS 343): Special Topics in Gender and Ethnicity in the U.S.
 - WGS 345 (WGS 345): Special Topics in Gender in a Global Context
 - WGS 352 (WGS 352) / ASIAN 352: Gender, Sexuality, and Power in Pre-modernChina
 - WGS 354 (WGS 354) / AAS / RCHUMS / HONORS 354: Race and Identity in Music
 - WGS 356 (WGS 356) / AMCULT / HISTORY 356: Health in America: Patterns, Experiences, Inequalities
 - WGS 357 (WGS 357): Feminist Practices in a Global Context
 - WGS 360 (WGS 360) / AMCULT 342 / HISTORY 368: History of the Family in theU.S.
 - WGS 363 (WGS 363) / AMCULT / ASIANPAM 363: Asian Pacific American Women
 - WGS 365 (WGS 365) / AAS 365: Global Perspectives on Gender, Health, and Reproduction
 - WGS 366 (WGS 366) / AMCULT 366 / HISTORY 353: Sex and Sexuality in U.S. Popular Culture
 - WGS 368 / AMCULT 368 / MIDEAST 378 / ARABAM 363: Women and War in theMiddleEast
 - WGS 374 (WGS 374): Gender, Race and Incarceration (*Only if elected SP19 orlater*)
 - WGS 370 (WGS 370) / HISTORY 370 / AMCULT 375: Queer Histories of theUnitedStates, 1850 to present (*Only if elected FA18 or later*)
 - WGS 376 (WGS 376) / JUDAIC 376: Women and the Bible (*Only ifelectedWN19 or later*)
 - WGS / AMCULT 378: Violence Against Women of Color
 - WGS 381 (WGS 381) / AAS 381 / ENGLISH 380: Intersections: Fictions andFeminisms of the African Diaspora
 - WGS / AAS 390: Homophobia in the Black World
 - WGS / HISTORY 397 / MIDEAST 387: Religion and Politics in Contemporary Iran (*Only if elected WN19 or later*)
 - WGS 417 (WGS 417): Race, Gender & Mental Health in the 19th Century (*Only ifelectedFA18 or later*)
 - WGS 425 (WGS 425) / AMCULT 425: Feminist Practice in Oral History
 - WGS 427 (WGS 427) / AAS / ANTHRCUL 427: African Women
 - WGS 432 (WGS 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 (WGS 433): Advanced Topics in Gender, Race and Ethnicity in the U.S.
 - WGS 434 (WGS 434): Advanced Topics in Gender, Culture & Representation, *section titled "Race & Beauty in American Culture" (Only if elected WN17 or later)*
 - WGS 434 (WGS 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 (WGS 435): Advanced Topics in Gender in a Global Context
 - WGS 438: Gender, Health, and Well-Being in Africa
 - WGS 443 (WGS 443) / AAS 443: Pedagogy of Empowerment: Activism in Race, Gender and Health
 - WGS / HISTORY 448: Gender and the Family in China
 - WGS 471 (WGS 471) / HISTORY 429 / MIDEAST 432 / RELIGION 496: Gender and Sexuality in Pre-Modern Islam
 - WGS 492 / REEES / SOC 490: Women and Islam
 - WGS 496 (WGS 496) / MIDEAST / ISLAM 433: Gender and Representation in the Modern Middle East.

Students may also include:

WGS 240 (WGS 240) or WGS 250 (WGS 250) (when not taken as a foundation course). Other special topics WGS or WGS courses on specific racial and ethnic groups approved by the Women's and Gender Studies department.

Bachelor in General Studies

In 1968, the faculty of the College of Literature, Science, and the Arts voted to create the Bachelor in General Studies (BGS) degree. This degree remains an option for students with interdisciplinary or alternate academic interests, allowing them to pursue their interests in an individually designed degree program independent of departmental requirements.

The Bachelor in General Studies is an interdisciplinary degree which allows a student to combine subject areas and skills in a way that focuses intellectual development through a lens of interdisciplinarity.

The B.G.S. is unique in that:

- It does not require completion of distribution (Natural Sciences, Social Sciences, Humanities, etc.).
- It does not require completion of second language proficiency.
- It does not require a major.
- It DOES require 60 credits of coursework elected at the 300-level or above.

Requirements specific to the 60 upper-level credits:

- No more than 20 credit hours of upper-level courses may be counted from a single department. If an academic department has several subjects (e.g., American Culture includes divisions of Arab American Studies, Asian/ Pacific Islander American Studies, Latina/o American Studies, Native American Studies), a B.G.S. student may elect a maximum 20 credit hours of upper-level courses from each subject to complete the minimum 60 credit hours.
- Students may complete more than 20 credit hours in a single division provided that only 20 upper-level credits count toward the 60-credit minimum (e.g., 25 credit hours of upper-level courses may be completed in psychology provided that 65 upper-level credit hours are completed). Thus, the number of lower-level credits need not be half of the 120 total.
- A cross-listed course may count toward any one of the departments regardless of the department noted on the transcript.
- At least 40 of these upper-level credits must be LSA.
- Students may include coursework from as many departments and subjects necessary to meet the 60 credits minimum. Typically B.G.S. students have 7–9 departments or subjects represented in their upper-level coursework. B.G.S. is NOT 20-20-20.
- One course from the Program in Entrepreneurship or Graham Sustainability Supplemental Studies may overlap with the 60 upper-level credits required by B.G.S.
- A B.G.S. student must earn an overall GPA of at least 2.0 in the courses used to meet the requirement of 60 upper-level credits.

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 www.lsa.umich.edu/german/undergrad/advising.

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 www.lsa.umich.edu/german/undergrad/advising.

Scandinavian Minor — Students wishing to pursue a minor in Scandinavian Studies must develop a specific plan for its completion in consultation with [Johanna Eriksson](mailto:johanna@umich.edu), 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 www.lsa.umich.edu/german/undergrad/advising.

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.
- 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 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 Winter 2021

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. 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 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 / ANTHRCUL / HISTORY 355: Health and Illness in African Worlds
- AAS / WGS 365 (WGS 365): Global Perspectives on Gender, Health & Reproduction
- AAS 426: Cities in Africa, *section titled "Cities in Contemporary Africa"*
- AMCULT / HISTORY 284: Sickness & Health in Society: 1492 to the Present
- ANTHRCUL / WGS 212 (WGS 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 (WGS 324): Childbirth & Culture
- ANTHRCUL 344: Medical Anthropology
- ANTHRCUL 355 / HISTORY 355 / AAS 355: Health and Illness in African Worlds
- ASIAN / RCSSCI 371: Natural Disasters in East Asia
- CMPLXSYS / ENVIRON / PUBPOL 250: Energy & Climate Change
- EARTH 201 / ENVIRON 209 / GEOG 201: Introduction to Environmental Science and Geography
- 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 380: Mineral Resources, Economics & the Environment
- EEB / ENVIRON 315: The Ecology and Evolution of Infectious Diseases
- 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 / CMPLXSYS / 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"*
- ENVIRON 306: Global Water
- ENVIRON / EEB 315: The Ecology and Evolution of Infectious Diseases
- 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 453: Tropical Conservation & Ecology
- ENVIRON 490: War and Environment: A Lethal Reciprocity
- GEOG / EARTH 201 / ENVIRON 209: Introduction to Environmental Science and Geography
- HISTORY / AMCULT 284: Sickness & Health in Society: 1492 to the Present
- HISTORY / ANTHRCUL / AAS 355: Health and Illness in African Worlds
- HONORS 230: Honors Core SS, *section titled "Violent Environments: Oil, Development, and the Discourse of Power"*
- INTLSTD 387: Topics in Global Environment and Health, *section titled "Implementation Solutions for Global Health Equity"*
- INTMED 387: Implementation Solution for Global Health Equity
- NRE 501: Grad Experimental, *section titled, "Foundations of Sustainable Food Systems"*
- NURS 225 / ANTHRCUL / WGS 212 (WGS 212): The Global HIV/AIDS Epidemic
- NURS 421: Perspectives in Global Health
- POLSCI 331 / ENVIRON 345 / SOC 380: Environmental Public Opinion Analysis
- PSYCH 477: Current Topics in Clinical Psychology, *section titled "Mental Health and Culture: National and International Perspectives"*
- PUBPOL 250 / ENVIRON / CMPLXSYS: Energy & Climate Change
- RCIDIV 305: Literature in Environment and Social Justice
- RCSSCI / ASIAN 371: Natural Disasters in East Asia
- SEAS / UC 215: Contemporary Social Issues in SE Asia
- SOC 380 / POLSCI 331 / ENVIRON 345: Environmental Public Opinion Analysis
- SOC 475: Introduction to Medical Sociology

- UC / SEAS 215: Contemporary Social Issues in Southeast Asia

- WGS (WGS) / ANTHRCUL 212 / NURS 225: The Global HIV/AIDS Epidemic
- WGS 324 (WGS 324) / ANTHRCUL 325: Childbirth & Culture
- WGS 331: Theory of Gender and Health
- WGS (WGS) / AAS 365: Global Perspectives on Gender, Health & Reproduction

Constraints

Students majoring in International Studies may only declare one sub-plan.

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 Fall 2017

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 two (but may elect the third under the “Additional Courses” category below):

- HISTORY 238 (Zoom: A History of Everything)
- HISTORY 239 (The World Before 1492)
- HISTORY 240 (The World Since 1492)

Additional Courses: Three additional courses (a minimum of 3 credits each for at least 9 credits). At least two of the three 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 237 / ENVIRON 237: Global Environmental History
- 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 / RCSSCI 310: Globalization in History: 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 (WGS 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 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 (WGS 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 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
- POLISH 314
- RCHUMS 312, 313
- SLAVIC 312, 313
- SPANISH 420
- FTVM 232, 245, 250, 312, 313, 314, 315, 316, 320, 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 / WGS 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, networks, 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 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 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 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 (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 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 (MODGREEK302) 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.

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 [/lsa.umich.edu/history/undergraduates/advising.html](https://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 [/lsa.umich.edu/history/undergraduates/advising.html](https://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: 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 300-level or above and none can be numbered below 200. Three- and four-credit courses both count as one course with the exception of HISTORY 294 when taken for two credits.

1. **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.
2. **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.

3. 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.
4. **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.
5. **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.

A list of pre-approved regional distribution courses and pre-1800 courses will be maintained on the History Department website.

These requirements can overlap. 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, but upon declaring, each student selects 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

- For the purposes of history major credit, no more than eight credits may be elected from HISTORY 395 (Independent Study).
- Two mini-courses can be combined in order to equal 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 Honors courses they are required to take, 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, also satisfies the "colloquium" requirement for history major, described above. Students who complete HISTORY 498 but not HISTORY 499 must satisfy this requirement by taking either HISTORY 496/497.

Teaching Certificate

The general requirements for a teaching certificate are described elsewhere in this Bulletin. Students must consult the School of Education Teacher Education office, 1228 School of Education, and check their website (www.soe.umich.edu) 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, one course in European history, HISTORY 396 or 397, 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.

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 [/lsa.umich.edu/history/undergraduates/advising.html](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 [/lsa.umich.edu/history/undergraduates/advising.html](https://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

- 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

1. Ancient
2. Medieval
3. Early Modern
4. Modern and Contemporary

Regions

- A. The Middle East (includes Western and Central Asia and North Africa)
- B. Sub-Saharan Africa
- C. Asia (includes China, Japan, India, South and Southeast Asia, and the Pacific)
- D. Europe and the U. S.
- E. 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 Fall 2018-Fall 2022

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 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"*
- 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 (WGS 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 (WGS 360): History of the Family in the U. S.
- HISTORY / WGS 370 (WGS 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 (WGS 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”*
- 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 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: History Labs 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 (WGS 356): Health in America. Patterns, Experiences, and Inequalities
- AMCULT 342 / HISTORY 368 / WGS 360 (WGS 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 (WGS 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 (WGS 356) / HISTORY 356 / AMCULT 331: Health in America. Patterns, Experiences, and Inequalities
- WGS 360 (WGS 360) / HISTORY 368 / AMCULT 342: History of the Family in the U. S.
- WGS 370 (WGS 370) / HISTORY 370 / AMCULT 375: Queer Histories of the United States, 1850 to the Present (*only if elected FA 19 or later*)
- WGS 375 (WGS 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 2016-Fall 2022

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"*
- 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. Culturesince 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 HumanExperimentation"*
- 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.

Honors Mathematics Submajor

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

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
6. ECON 101 and ECON 102 (actuarial mathematics submajor only).

Prerequisites

Prerequisites for all Mathematics Majors: Completion of one of the sequences ending with MATH 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 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

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.

Informatics Major

What is Informatics?

Informatics is the study of human and computer information processing systems from a socio-technical perspective. Michigan's unique interdisciplinary approach to this growing field of research and teaching emphasizes a solid grounding in contemporary computer programming, mathematics, and statistics, combined with study of the ethical and social science aspects of complex information systems. Experts in the field help design new information technology tools informed by scientific, business, and cultural contexts.

Informatics is where the technical accomplishments of computer science, mathematics, and statistics become embedded in the ways we interact, imagine, and produce in richer and more thoughtful ways. Students will obtain software development skills and learn a formal framework for making inferences from experimental and observational data, focusing on the manner and purpose in which people interact with information and information systems.

The major in Informatics is appropriate for students with varied interests and a range of background knowledge in information systems engineering, information analysis, and/or the use of information processing in biological, societal and emerging application areas. Students who complete the major are equipped to participate fully in important emerging areas such as bioinformatics, information analysis, large-scale information management, and human-centered information systems design. In addition, depending on which track a student selects, he or she develops the intellectual skills

- to analyze enormous quantities of information (Information Analysis Track);
- to apply information technology to large-scale, cutting-edge problems in the life sciences (Life Science Informatics Track).

Students concentrating in Informatics have many opportunities available to them after graduation. The major provides excellent preparation for jobs in the IT industry as product managers, human factors engineers, usability specialists, information analysts in sciences and science related industries, and designers working with large software development teams. Recruiters visiting the university frequently are seeking students with the ideals and skill sets that are provided by this program. Combined with work in specific knowledge domains, from nursing to economics, graduates of Michigan's Informatics major are vital in leading organizations to harness emerging technologies. The deep understanding of the connections between information technology, data analysis, and organizations and society is also excellent background for students seeking to enter law school, business school, medical school, or schools of public policy. And, depending on the track they complete, students are well prepared for graduate study in many fields, including statistics, computer science, information, law, medicine, public health, and natural and social sciences.

Summary of Course Requirements and Prerequisites

The major in Informatics requires 40 credit hours for completion, including four core courses, 3-4 courses in one of two flexible tracks, plus electives selected from a list of recommended courses.

Four prerequisite courses serve as an introduction to core academic aspects of the curriculum and are required of all concentrators. The core serves as a tour of critical perspectives and investigative methodologies, an introduction to tools and techniques, and an entry point for further study. The four core courses provide grounding in discrete mathematics, computer programs and models, research methods in applied statistics, and the ethical issues posed by new and emerging technologies. Each of the four core courses helps establish a foundation for the advanced study of informatics issues pursued through the specific informatics tracks. Core courses may be taken in any order and are required for completion of the major. Students may enroll in track courses before they have completed the entire core curriculum.

In pursuing the major in Informatics, students have the flexibility to specialize in one of two tracks: Information Analysis or Life Science Informatics. Each of the tracks requires three to four courses, some of which will have associated prerequisite courses enforced at registration. The tracks consist of a set of carefully chosen courses that together convey the necessary intellectual perspectives and foundational skills of the track.

In addition to the major's core and track requirements, students select major electives from a list of recommended courses. The breadth of electives will allow students to add intellectual depth to their selected track studies or to broaden their perspective on other aspects of the informatics field. The Faculty Steering Committee for the major will entertain appeals from students to substitute elective courses other than those in the list of recommended electives.

Life Science Informatics Track

Using artificial information systems, scientists have made great progress in identifying core components of organisms and ecosystems and are beginning to better understand how these components behave and interact with each other. In fact, biology has become an information science, as computational techniques have become an important means to develop and evaluate biological hypotheses. Informatics is used from basic biological research—studying how patterns of gene expression differ across various cell types—to the practice of medicine, where informatics is used to compare treatments, to identify social correlates of health, and to evaluate possible changes in health policy. The Life Science Informatics track prepares students for careers and advanced study in a number of information-related fields in the life sciences, as well as medical school and other areas of graduate study.

Effective Winter 2014

Advising

The Academic Program Manager and members of the Faculty Steering Committee that designed the major share responsibility for major advising. Students who are interested in the Informatics major should consult with an Academic Advisor in the Newnan LSA Academic Advising Center during their freshman year and are strongly encouraged to meet with a department advisor early in their academic career. To make an appointment with a department advisor, please contact informatics@umich.edu.

Grade Policies

Field of Major and GPA calculation

For purposes of calculating grade point average, the term "field of the major" means the following:

1. All STATS courses.
2. All courses used to meet requirements for the major.
3. All mandatory major prerequisites.

Prerequisites

It is not necessary to complete all prerequisite courses prior to declaring an Informatics major. Minimum grade for all prerequisite courses is a C.

Prerequisites to Core Courses

1. SI 110 / SOC 110 with a C or better;
2. MATH 115 with a C or better;
3. EECS 182 / SI 182 or EECS 183 with a C or better;
4. STATS 250 or 280 with a C or better.

Prerequisite to Declaration

MATH 115, STATS 250 or 280, and EECS 182 or 183.

Requirements

Minimum Credits: 40

A minimum of 12 courses and a minimum of 40 credits.

1. **Core:** EECS 203, EECS 280, STATS 403
2. **Subplans:** Completion of one of the following tracks:
 - a. **Life Science Informatics track:**
 1. BIOINF 527
 2. One of the following Life Sciences courses:
 - BIOLOGY 305
 - MCDB 310
 3. Two of the following Quantitative/Computational courses:
 - EECS 376, 382, 485
 - STATS 401, 449, 470
 - BIOSTAT 449
 4. Electives*: 12-14 credits; 4 credits must be elected at the 300-level or higher.
 - b. **Data Mining & Information Analysis track:** (*Note: inactive as of Spring 2017*)
 1. MATH 217
 2. STATS 406
 3. STATS 415
 4. One of the following Quantitative courses:
 - MATH 425, 471, 561, 562, 571
 - STATS 425, 500
 - IOE 310, 510, 511, 512
 5. *Electives**: 8 credits must be elected at the 300-level or higher
3. **Electives:** Additional Informatics electives to bring total major credits to 40 credits (44 for Data Mining track). The number of electives required for each track varies, depending on the number of required core courses in the track. Informatics majors be allowed to select their electives from one of the following lists of courses, depending on their chosen track. Students who wish to use an elective that is not on this list should consult their track advisor before taking the course.

Informatics Pre-Approved Electives

Students may chose electives for their declared track from the following pre-approved lists of

electives without consultation of the track advisor.

Note: Only one elective course in a track indicated with "*" can be taken for elective credit.

Life Science Informatics Track

BIOINF 463 / MATH 463/BIOPHYS 463: Math Modeling in Biology

- BIOINF 545 / STATS 545 / BIOSTAT 646: Molecular Genetic and Epigenetic Data
- BIOINF 547 / MATH 547 / STATS 547: Probabilistic Modeling in Bioinformatics
- BIOINF 551 / BIOLCHEM 551 / CHEM 551 / BIOMEDE 551 / PATH 551: Proteome Informatics
- BIOLCHEM 551 / CHEM 551 / BIOINF 551 / BIOMEDE 551 / PATH 551: Proteome Informatics
- BIOMEDE 551 / BIOLCHEM 551 / CHEM 551 / BIOINF 551 / PATH 551: Proteome Informatics
- BIOPHYS 463 / MATH 463 / BIOINF 463: Math Modeling in Biology
- BIOSTAT 449 / STATS 449: Topics in Biostatistics
- BIOSTAT 646 / BIOINF 545 / STATS 545: Molecular Genetic and Epigenetic Data
- CHEM 551 / BIOLCHEM 551 / BIOINF 551 / BIOMEDE 551 / PATH 551: Proteome Informatics
- CMLXSYS 510 / MATH 550: Introduction to Adaptive Systems
- EEB 485: Population and Community Ecology*
- EECS 281: Data Structures and Algorithms
- EECS 376: Foundations of Computer Science
- EECS 382: Internet-scale Computing
- EECS 476: Theory of Internet Applications
- EECS 477: Introduction to Algorithms
- EECS 481: Software Engineering
- EECS 484: Database Management Systems
- EECS 485: Web Database and Information Systems
- EECS 487: Interactive Computer Graphics
- EECS 489: Computer Networks
- EECS 492: Introduction to Artificial Intelligence
- EECS 493: User Interface Development
- HONORS 352: Honors Introduction to Research in the Natural Sciences (*section titled "Cyberscience"*)
- MATH 416: Theory Algorithms
- MATH 425 / STATS 425: Introduction to Probability
- MATH 433: Introduction to Differential Geometry
- MATH 451: Advanced Calculus I
- MATH 462: Mathematical Models
- MATH 463 / BIOINF 463 / BIOPHYS 463: Math Modeling in Biology
- MATH 471: Introduction to Numerical Methods
- MATH 525 / STATS 525: Probability Theory
- MATH 526: Discrete State Stochastic Processes
- MATH 547 / BIOINF 547 / STATS 547: Probabilistic Modeling in Bioinformatics
- MATH 548 / STATS 548: Computations in Probabilistic Modeling in Bioinformatics
- MATH 550 / CMLXSYS 510: Introduction to Adaptive Systems
- MCDB 408: Genomic Biology
- MCDB 411: Protein Structure and Function
- PATH 551 / BIOLCHEM 551 / CHEM 551 / BIOINF 551 / BIOMEDE 551: Proteome Informatics
- SI 301: Models of Social Information Processing*
- SI 422: Evaluation of Systems and Services*
- SI 572: Database Design

- SI 631: Practical I Engagement Workshop: Content Management Systems*
- SI 689: Computer Supported Cooperative Work*
- STATS 401: Applied Statistical Methods II
- STATS 406: Introduction to Statistical Computing
- STATS 408: Statistical Principles for Problem Solving: A Systems Approach
- STATS 415: Data Mining
- STATS 425 / MATH 425: Introduction to Probability
- STATS 426: Introduction to Theoretical Statistics
- STATS 430: Applied Probability
- STATS 449 / BIOSTAT 449: Topics in Biostatistics
- STATS 470: Introduction to the Design of Experiments
- STATS 480: Survey Sampling Techniques
- STATS 500: Applied Statistics I
- STATS 525 / MATH 525: Probability Theory
- STATS 526 / MATH 526: Discrete State Stochastic Processes
- STATS 545 / BIOINF 545 / BIOSTAT 646: Molecular Genetic and Epigenetic Data
- STATS 547 / MATH 547 / BIOINF 547: Probabilistic Modeling in Bioinformatics
- STATS 548 / MATH 548: Computations in Probabilistic Modeling in Bioinformatics

Data Mining & Information Analysis Track (*Note: Inactive as of Spring 2017*)

- BIOINF 463 / MATH 463 / BIOPHYS 463: Math Modeling in Biology
- BIOINF 527: Introduction to Bioinformatics & Computational Biology*
- BIOINF 545 / STATS 545 / BIOSTAT 646: Molecular Genetic and Epigenetic Data*
- BIOINF 547 / MATH 547 / STATS 547: Probabilistic Modeling in Bioinformatics
- BIOINF 551 / BIOLCHEM 551 / CHEM 551 / BIOMEDE 551 / PATH 551: Proteome Informatics*
- BIOLCHEM 551 / CHEM 551 / BIOINF 551 / BIOMEDE 551 / PATH 551: Proteome Informatics*
- BIOMEDE 551 / BIOLCHEM 551 / CHEM 551 / BIOINF 551 / PATH 551: Proteome Informatics*
- BIOPHYS 463 / MATH 463 / BIOINF 463: Math Modeling in Biology
- BIOSTAT 449 / STATS 449: Topics in Biostatistics
- BIOSTAT 646 / BIOINF 545 / STATS 545: Molecular Genetic and Epigenetic Data*
- CHEM 551 / BIOLCHEM 551 / BIOINF 551 / BIOMEDE 551 / PATH 551: Proteome Informatics*
- CmplxSYS 510 / MATH 550: Introduction to Adaptive Systems*
- EECS 281: Data Structures and Algorithms
- EECS 376: Foundations of Computer Science
- EECS 382: Internet-scale Computing
- EECS 476: Theory of Internet Applications
- EECS 477: Introduction to Algorithms
- EECS 481: Software Engineering
- EECS 484: Database Management Systems
- EECS 485: Web Database and Information Systems
- EECS 487: Interactive Computer Graphics
- EECS 489: Computer Networks
- EECS 492: Introduction to Artificial Intelligence
- EECS 493: User Interface Development
- HONORS 352: Honors Introduction to Research in the Natural Sciences (section titled "Cyberscience")
- IOE 510 / MATH 561 / OMS 518: Linear Programming I*
- IOE 511 / MATH 562: Continuous Optimization Methods*
- IOE 512: Dynamic Programming*
- MATH 416: Theory Algorithms

- MATH 425 / STATS 425: Introduction to Probability
- MATH 433: Introduction to Differential Geometry
- MATH 451: Advanced Calculus I
- MATH 462: Mathematical Models
- MATH 463 / BIOINF 463 / BIOPHYS 463: Math Modeling in Biology
- MATH 471: Introduction to Numerical Methods
- MATH 525 / STATS 525: Probability Theory
- MATH 526: Discrete State Stochastic Processes
- MATH 547 / BIOINF 547 / STATS 547: Probabilistic Modeling in Bioinformatics
- MATH 548 / STATS 548: Computations in Probabilistic Modeling in Bioinformatics
- MATH 550 / CMPLXSYS 510: Introduction to Adaptive Systems*
- MATH 561 / IOE 510 / OMS 518: Linear Programming I
- MATH 562 / IOE 511: Continuous Optimization Methods
- MATH 571: Numerical Methods for Scientific Computing I
- MCDB 408: Genomic Biology
- OMS 518 / IOE 510 / MATH 561: Linear Programming I*
- PATH 551 / BIOLCHEM 551 / CHEM 551 / BIOINF 551 / BIOMEDE 551: Proteome Informatics*
- SI 301: Models of Social Information Processing*
- SI 422: Evaluation of Systems and Services*
- SI 508: Networks: Theory and Application
- SI 572: Database Design*
- SI 583: Recommender Systems*
- SI 631: Practical I Engagement Workshop: Content Management Systems*
- SI 679: Aggregation and Prediction Markets*
- SI 683: Reputation Systems*
- SI 689: Computer Supported Cooperative Work*
- STATS 401: Applied Statistical Methods II
- STATS 408: Statistical Principles for Problem Solving: A Systems Approach
- STATS 425 / MATH 425: Introduction to Probability
- STATS 426: Introduction to Theoretical Statistics
- STATS 430: Applied Probability
- STATS 449 / BIOSTAT 449: Topics in Biostatistics
- STATS 470: Introduction to the Design of Experiments
- STATS 480: Survey Sampling Techniques
- STATS 500: Applied Statistics I
- STATS 525 / MATH 525: Probability Theory
- STATS 526 / MATH 526: Discrete State Stochastic Processes
- STATS 545 / BIOINF 545 / BIOSTAT 646: Molecular Genetic and Epigenetic Data*
- STATS 547 / MATH 547 / BIOINF 547: Probabilistic Modeling in Bioinformatics
- STATS 548 / MATH 548: Computations in Probabilistic Modeling in Bioinformatics

Constraints

Informatics majors may not use any STATS courses toward the 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 STATS subject area may not be used toward the Distribution Requirement.

Honors

Students interested in doing original research in informatics are encouraged to consider the Informatics Honors Plan. The Honors major is open to all Informatics majors who have achieved both a major GPA and an overall GPA of 3.4 or better. At least one year prior to graduation, interested students should identify a member of the U-M faculty with informatics expertise to serve as their faculty advisor. Together with that person, the student prepares a 2-3 paragraph summary of the proposed thesis project, which is submitted together with the Honors Plan Application to the Informatics Program Coordinator for review by department advisors. The student completes the thesis work in the senior year, while enrolling in 3-4 credits of independent study (such as EECS 499, MATH 399, SI 491, STATS 489, HONORS 390, or HONORS 490). At least six weeks before the last day of classes in the term in which the student will complete the independent study and thesis, an electronic copy of the final Honors thesis is submitted to the Informatics program coordinator. The faculty advisor then solicits comments on the completed thesis from an independent reader, and the student presents the work in a public forum.

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:**
 - o CHEM 210/211;
 - o CHEM 241/242 or CHEM 245/246/247;
 - o CHEM 260;
 - o 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 Fall 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 www.lsa.umich.edu/physics/academics/undergraduateprogram/advising .

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 cognate 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.

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

intergroupdialogue.

- 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) 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 (WGS 328): Women, Agency & Sexual Safety (F17)
- AAS / WGS 381 (WGS 381) / ENGLISH 380: Fictions and Feminisms (F17)
- AAS / WGS 443 (WGS 443): Pedagogy of Empowerment (F17)
- 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 (WGS 240): Introduction to Women's and Gender Studies
- AMCULT / FTVM / COMM / DIGITAL 334: Race and Video Games (F17)
- AMCULT / ASIANPAM 353 / HISTORY 454: Asians in American Film and Television
- AMCULT / WGS 411 (WGS 411): Rednecks, Queers, and Country Music
- ANTHRCUL 302 / WGS 302 / HISTART 302: Sex and Gender in Japan
- ANTHRCUL / LING 370: Language and Discrimination (F17)

- ARABAM / AMCULT 215 / MIDEAST 275: Introduction to Arab-American Studies
- ASIAN 334: Prejudice: India & US (F17)
- ASIAN 352: Gender, Sexuality, and Power in Premodern China (F17)
- ASIANPAM / AMCULT 353 / HISTORY 454: Asians in American Film and Television
- COMM / FTVM / AMCULT / DIGITAL 334: Race and Video Games (F17)
- COMM 428: Gender, Media, and the Law
- DIGITAL / COMM / FTVM / AMCULT 334: Race and Video Games (F17)
- EDUC 463: Web-Based Mentorship: Arab-Israel Conflict Simulation
- ENGLISH / WGS 315 (WGS 315): Women & Literature (F17)
- ENGLISH 316: Disability Studies (F17)
- ENGLISH 380 / AAS / WGS 381 (WGS 381): Fictions and Feminisms (F17)
- ENVIRON / ORGSTUDY 203: Activism
- FTVM / AMCULT / COMM / DIGITAL 334: Race and Video Games (F17)
- HISTART / ANTHRCUL / WGS 302 (WGS 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 (F17)
- MIDEAST 275 / AMCULT / ARABAM 215: Introduction to Arab-American Studies
- ORGSTUDY / ENVIRON 203: Activism
- PSYCH 280: Introduction to Social Psychology
- PSYCH / WGS 291 (WGS 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 / WGS 421: Gender and Sport
- SOC 345 / WGS 348 (WGS 348): Sociology of Sexuality
- SOC 346: Sociology of the Body
- SOC 354: Law & Society (F17)
- SOC 368: Criminology
- SOC 375 / ALA 228 / PSYCH 312: Intergroup Conflict & Coexistence: Religion, Ethnicity, & Culture
- SOC / WGS 447: Sociology of Gender
- SOC 458: Sociology of Education
- WGS (WGS) / AMCULT 240: Introduction to Women's and Gender Studies
- WGS 245 (WGS 245): Introduction to LGBT and Queer Studies
- WGS (WGS) / PSYCH 291: Introduction to the Psychology of Women and Gender
- WGS (WGS) / ANTHRCUL / HISTART 302: Sex and Gender in Japan
- WGS (WGS) / ENGLISH 315: Women and Literature (F17)
- WGS (WGS) / AAS 328: Women, Agency & Sexual Safety (F17)
- WGS 330 (WGS 330): Feminist Thought
- WGS 331 (WGS 331): Feminist Theoretical Perspectives in Gender & Health (F17)
- WGS 348 (WGS 348) / SOC 345: Sociology of Sexuality
- WGS (WGS) / AAS 381 / ENGLISH 380: Fictions and Feminisms (F17)
- WGS (WGS) / AMCULT 411: Rednecks, Queers, and Country Music
- WGS (WGS) / SM 421: Gender and Sport

- WGS (WGS) / AAS 443: Pedagogy of Empowerment (F17)
- WGS / 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.i.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 \(GEH\)](#)

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.

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.

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.

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 another 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 Winer 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. Advising for the Honors plan is provided by the PICS Director and the PICS Honors Thesis advisor. For more information, see: <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 Interdisciplinary 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. At least one International Studies Seminar will be offered every year.

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 major 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 these courses in the minor may be shared with requirements of the 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 (WGS 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 (WGS 471): Gender & Sexuality in Pre-Modern Islam
- MIDEAST 520: Readings in Classical Islamic Texts
- REEES / SOC 490 / WGS 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 (WGS 471): Gender & Sexuality in Pre-Modern Islam
- SOC 490 / REEES 490 / WGS 492: Women & Islam
- WGS 471 (WGS 471) / MIDEAST 432 / HISTORY 429 / RELIGION 496: Gender & Sexuality in Pre-Modern Islam
- WGS 492 / SOC / REEES 490: Women & Islam

Middle East & North Africa

- AMCULT 368 / ARABAM 363 / MIDEAST 378 / WGS 368: Women and War in the Middle East
- ARABAM 363 / MIDEAST 378 / AMCULT 368 / WGS 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 / WGS 368 / ARABAM 363: Women and War in the MiddleEast
- 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
- WGS 368 / MIDEAST 378 / ARABAM 363 / AMCULT 368: Women and War in the MiddleEast

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 ofIslam in South Asia

East and Southeast Asia

- ASIAN 464 / HISTORY 470 / RELIGION 464: From Mystic Saints to Holy Warriors: Islam inSoutheast 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 ExoticLand

Europe & the Americas

- AMCULT / ARABAM 215 / MIDEAST 275: Introduction to Arab-American Studies
- AMCULT / ARABAM / WGS 235 (WGS 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 Winter 2021-Summer 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 3.5 in all courses, as well as 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 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 and Yiddish 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.

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 JudaicStudies@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 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 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.

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 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 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.

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 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
- SOC 225 Project Community*
- LATINOAM / AMCULT 226: The Latin Tinge
- LATINOAM / AMCULT / WGS 243 (WGS 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.
- 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 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

A department advisor is available to students for one-on-one appointments to discuss the choice of sociology as a major (or minor), assist in course selection, and advise on co-curricular opportunities and career preparation. Students can schedule an advising appointment by calling the department at (734) 764-6324 or using the online appointment scheduler at <http://lsa.umich.edu/soc/undergraduates/advising.html>. Students can also email socadvisor@umich.edu with questions.

Students wishing to pursue a minor in Law, Justice, and Social change must develop a specific plan for its completion in consultation with the department advisors. Appointments are scheduled online at: <http://lsa.umich.edu/soc/undergraduates/advising.html>

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 208: Terrorism, Torture, & Violence
- SOC / WGS 270 (WGS 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 theWorld
- SOC 461: Social Movements

- SOC 465 / PSYCH 488 / WGS 465 (WGS 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.

Law, Justice, and Social Change Submajor

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.

Sociology (Major)

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 SocialWork) Social Theory and Practice Major (Residential College)

Advising

A department advisor is available to students for one-on-one appointments to discuss the choice of sociology as a major (or minor), assist in course selection, and advise on co-curricular opportunities and career preparation. Students can schedule an advising appointment by calling the department at (734) 764-6324 or using the online appointment scheduler at www.lsa.umich.edu/soc. Students can also email socadvisor@umich.edu with questions. Students wishing to pursue a minor in Law, Justice, and Social change must develop a specific plan for its completion in consultation with the department advisors. Appointments are scheduled online at: www.lsa.umich.edu/soc/undergraduate/advisingandprogrampolicies.

Students wishing to pursue a subplan in Sociology and Social Work must develop a specific plan for its completion in consultation with the department advisors. Appointments are scheduled online at www.lsa.umich.edu/soc/undergraduate/advisingandprogrampolicies.

In addition, the Social Work staff will be available to advise students interested in the optional preferred admissions process into the accelerated MSW program and related coursework. Students should contact the Office of Student Services at (734) 936-0961 to schedule a phone or in-person appointment.

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 first and 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.

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)

Effective Fall 2014

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, 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), sectionstitled "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.

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/women.

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 (WGS 245) Introduction to Lesbian, Gay, Bisexual and Transgender+ Studies, WGS 265 Introduction to Transgender Studies, *or* WGS 295 (WGS295) 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 (WGS) 224 / JUDAIC 224 / HISTORY 222: Sex and Sexuality in Jewish History and Culture (WN19)
 - WGS (WGS) / AMCULT 239: Gender, Sexuality, and Health in America
 - WGS 245 (WGS 245): Introduction to Lesbian, Gay, Bisexual and Transgender and Queer Studies (*when not taken as the foundational course*)
 - WGS 258 (WGS 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 (WGS) / AMCULT 295: Sexuality in Western Culture (*when not taken as the foundational course*)
 - WGS 305 (WGS 305) / ALA 306: Interdisciplinary & Intersectional LGBTQ Health
 - WGS (WGS) / POLSCI 308: Law and the Politics of Sexuality
 - WGS 312 (WGS 312): Queering US Immigration History
 - WGS (WGS) / HISTORY 327: History of Sexuality
 - WGS 341 (WGS 341): Special Topics in LGBTQ Studies
 - WGS 343 (WGS 343): Topics in Gender, Race & Ethnicity in the U.S., *section titled "Queering US Immigration History" (W18)*
 - WGS 348 (WGS 348) / SOC 345: Sociology of Sexuality
 - WGS (WGS) / ASIAN 352: Gender, Sexuality, and Power in Premodern China
 - WGS (WGS) / AMCULT 366 / HISTORY 353: Sex and Sexuality in U.S. Popular Culture
 - WGS (WGS) / HISTORY 370 / AMCULT 375: Queer Histories of the United States, 1850 to the present
 - WGS 380 (WGS 380) / RCCORE 334: Special Topics, *section titled "Out of the Past: 20th Century LGBT History" (F18)*
 - WGS / AAS 390: Homophobia in the Black World
 - WGS (WGS) / PSYCH 394: Sex, Sexuality and Public Policy
 - WGS 407 (WGS 407): Intersexualities
 - WGS (WGS) / AMCULT 411: Rednecks, Queers, and Country Music: Identity and Social Status in Popular Culture
 - WGS (WGS) / RCSSCI / ANTHRCUL 428: Sex Panics in the U.S. and UK
 - WGS (WGS) / COMM 429: Sexual Identities and the Media
 - WGS 431 (WGS 431): Advanced Topics in LGBTQ Studies
 - WGS (WGS) / ANTHRCUL 446: Sex in the City: Urban Geography and Sexual Locations
 - WGS 449 (WGS 449) / SOC 445: Diagnosis, Sex & Society
 - WGS 450 (WGS 450): Popular Music, Gender, and Sexuality (*only through WN20*)
 - WGS 452 (WGS 452) / PSYCH 414: Sexuality and Science
 - WGS (WGS) / SOC 465 / PSYCH 488: Sociological Analysis of Deviance

- WGS 470 (WGS 470) / HISTORY 471: Gender and Sexuality in India
- WGS 471 (WGS 471) / HISTORY 429 / MIDEAST 432 / RELIGION 496: Gender and Sexuality in Pre-Modern Islam
- WGS (WGS) / 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, 210 or 212 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 tools for concentrators 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, 210, or 212 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.

Mathematical Sciences Submajor

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 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 Mathematical Sciences Submajor

Completion of one of the sequences ending with MATH 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). For those not pursuing either a Physics major or minor, PHYSICS 140/141 and 240/241 are required for the Numerical and Mathematical Physics options and strongly recommended for the other options. 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 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 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.)

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 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 once 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, 513, 561, 571, 575
- *Geometry/Topology:* MATH 433, 490
- *Applied Mathematics:* MATH 354, 371, 404, 423, 425, 450, 454, 462, 463, 471, 472, 550, 561, 563, 571
- *Discrete Mathematics:* MATH 310, 312, 389, 412, 416, 420, 425, 465, 475, 481, 561, 566, 567, 582
- *Financial/Actuarial Mathematics:* MATH 423, 424, 472, 520, 521, 523, 524

Mathematics of Finance & Risk Management (Financial Mathematics) submajor

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. EECS 183

Prerequisites

Prerequisites for all Mathematics Majors

Completion of one of the sequences ending with MATH 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.

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:
 - ANTHRBIO 297: Topics in Biological Anthropology, *section titled, "The Ghost in Your Genes: Epigenetics" (F18)*
 - ANTHRBIO 342 / ANTHRCUL 342: Nature/Culture Now!
 - ANTHRBIO 363: Genes, Disease, Culture
 - ANTHRBIO 364: Nutrition & Evolution
 - ANTHRBIO 462: Human Growth and Development across the Life Cycle
 - ANTHRCUL / WGS 212 / NURSING 225: The Global HIV/AIDS Epidemic
 - 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 (WGS 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 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 (WGS 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 / ANTHRCUL / WGS 212: The Global HIV/AIDS Epidemic
 - RCSSCI / ANTHRCUL 327: Critical Theory in Medicine and Health
 - WGS / ANTHRCUL / NURSING 225: The Global HIV/AIDS Epidemic
 - WGS 324 (WGS 324) / ANTHRCUL 325: Childbirth & Culture
 - WGS (WGS) / AAS 365: Global Perspectives on Gender, Health, & Reproduction
3. or a course(s) approved by the Undergraduate Advisor.

Medieval and Early Modern Studies Minor

The minor in MEMS is designed to provide a basic, interdisciplinary familiarity with the pre-modern world. The minor fosters geographic and cross-cultural breadth, but also allows students to integrate their interdisciplinary studies with a defined historical, geographical, or topical focus planned with the department advisor. Possibilities include pre-modern cultural areas (Africa, the Americas, Asia, Europe, the Middle East) or focused thematic subjects (e.g., material culture; women and gender; science, technology, and medicine; Jewish studies; religion and philosophy; music, theatre and performance; colonialism).

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, or 160)
- Physics II (PHYSICS 126, 235, 239 (AP), 240, 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, EEB 447, or EEB 401 "Environmental Microbiology" section ONLY
- 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, EEB447, or EEB 401 "Environmental Microbiology" section ONLY) if not used above

Elective Requirement:

- **Group 1: Specified Electives** (A minimum of 4 course for at least 12 credits):
 - EARTH 413; EEB 416, (447 or 401 "Environmental Microbiology" section ONLY, if

not used to fulfill advanced lab), 446, 468; EPID 460; MCDB 408, 409, 415, 416, 436*, 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 MATH116 as a prerequisite; MCDB 306, 400, 401, 427, 428, 429*, 411; MICROBIOL 399; 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.

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 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

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 Near Eastern 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, or 160)
- Physics II (PHYSICS 126, 235, 239 (AP), 240, or 260)
- Computer Programming: EECS 183, 203, and/or 280
- Statistics (STATS 180 (AP), 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, 469, 471, 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.

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.

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 DesignProject
 - 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 Indigenities (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, 160, or equivalent)
 - Physics II (PHYSICS 126, 235, 240, 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.: 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, 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 (*only if elected FA19 or later*), 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;
- MCDB / EEB 397;
- MCDB 401, 405, 411, 417, 427, 428, 435, 436, 440, 441, 454, 462;
- PHRMACOL 310;
- PSYCH 335, PSYCH 338 / ANTHRBIO 368, 346 (prior to W18), PSYCH 349 / LING 347, PSYCH 414 /WGS 452 (WGS 452), 420 (3 credits only), PSYCH 439 / ANTHRBIO 468, 441, 447, 448, PSYCH 532 / ANATOMY / 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
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, or MCDB 400), 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 Winter 2019-Summer 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 must be taken for a grade.

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 must be taken for a grade (not P/F).

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 Honorsmajors).
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.
 - 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 [OrganizationalStudies 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:
 - o SOC 210
 - o 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:
 - 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.
 - 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 / CMLXSYS 391: Introduction to Modeling Political Processes
 - POLSCI 488: Political Dynamics
 - POLSCI 490: Game Theory and Formal Models
 - POLSCI 499: Quantitative Methods of Political Analysis
 - CMLXSYS 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 (WGS 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 (WGS 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
 - Cmplxsys 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 / CMPLXSYS 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 corerequirements 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 themerequirement 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 (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. (*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 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, or 160
General Physics II: PHYSICS 126, 235, 239, 240, 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 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 (PlantBiochemistry)

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, 400*, 436, 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 30major credit hours.
 - BIOLOGY 200, BIOLOGY 241, BIOLOGY 299, EEB/MCDB 301, EEB/MCDB 302, EEB/MCDB800, MCDB 412, 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) 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.

The Playwriting minor focuses on principles and techniques for the composition of creative works in theatre, as well as possible exploration in different writing genres (i.e. screenwriting, fiction, and poetry). The minor includes in-depth instruction in the craft of writing, analysis, script editing/reading, and possible creation of full production(s). The minor is open to all undergraduate U-M students.

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)

¹Courses must be approved by Instructor and/or must meet any prerequisites that may be required.

²Courses 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:
 - o 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:**
 - o 6 credits in SLAVIC 225, 240, 270, 312, 396, 423, 490 (*appropriate sections**)
 - o HISTORY 330, 331
 - o 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 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.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
- ECON 101: Principles of Economics I
- 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 260: The Political Economy of African Development
- AAS 408: African Economies: Social and Political Settings
- AAS 426: Urban Redevelopment, *section titled "Cities in Contemp Africa"*
- AAS 432: Violent Environments
- AAS 458: Issues in Black World Studies, *sections titled "Business & Politics in Developing Countries" "Health & African Development" "When China Comes to Town"*
- AAS 460: Africa & Post-war Development Theory & Policy
- AAS 497 / POLSCI 458: Party Politics & Democracy in Sub-Saharan Africa
- ANTHRCUL 328: Globalizing Consumer Cultures
- ANTHRCUL 334: Anthropology & Development
- ANTHRCUL 343 / POLSCI 342: Eastern Europe
- ANTHRCUL 439: Economic Anthropology & Development
- BA / STRATEGY 445: Base of the Pyramid
- EARTH / ENVIRON 380: Natural Resources, Economics & the Environment
- EAS 571 / ECON 471: Environmental Economics
- ECON 340: International Economics
- ECON 350: Comparative Economic Systems
- ECON 441: International Trade Theory
- ECON 442: International Finance

- ECON 444: The European Economy
- ECON 445: The Economy of the People's Republic of China
- ECON 461: The Economics of Development I
- ECON 462: The Economics of Development II
- ECON 466: Economy of Population (*only if elected FA19 or later*)
- ECON 471 / EAS 571: Environmental Economics
- ECON 490: Topics in Microeconomics, *section titled "Trade and Financial Globalization"* (*only if elected FA19 or later*)
- ECON / HISTORY 494: Topics in Economic History, *section titled "History of the Atlantic Economy"*
- ENVIRON 270: Our Common Future: Ecology, Economics & Ethics of Sustainable Development
- ENVIRON 302: Topics in Environmental SS, *section titled "Energy Politics"*
- ENVIRON 313 / POLSCI 394: Environment & Development
- ENVIRON 367: Global Enterprise & Sustainable Development
- ENVIRON 375 / ECON 370: Environmental & Resource Economics
- ENVIRON / EARTH 380: Natural Resources, Economics & the Environment
- FIN 412: International Finance Management I (*only if elected FA19 or later*)
- HISTORY 239: The World Before 1492
- HISTORY 312 / POLSCI 362: History of European Integration
- HISTORY / SOC 332 / POLSCI / REEES / SLAVIC 395: Russia and the Soviet Union: Reform, Revolution, and the Socialist Experiment
- HISTORY / ECON 494: Topics in Economic History, *section titled "History of the Atlantic Economy"*
- 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"*
- POLSCI 336: Comparative Politics
- POLSCI 342 / ANTHRCUL 343: Eastern Europe
- POLSCI 343: Political Economy of Developed Democracies
- POLSCI 348: Political Economy of Development
- POLSCI 353: The Arab-Israeli Conflict
- POLSCI 355: Democracy and Development in Africa
- POLSCI 362 / HISTORY 312: History of European Integration
- POLSCI 369: Politics of International Economic Relations
- POLSCI 389: Topics in Contemporary Political Science, *section titled "State & Market in Contemporary China"*
- POLSCI 394 / ENVIRON 313: Environment & Development
- 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 458 / AAS 497: Party Politics & Democracy in Sub-Saharan Africa
- POLSCI 489: Advanced Topics in Contemporary Political Science, *sections titled "Business & Politics in Developing Countries" "African Economies: Social and Political Settings"*
- 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”*
- RCSSCI 226: Globalization: Social Theory & Practice
- RCSSCI 315: International Grassroots Development
- 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
- SLAVIC / POLSCI / REEES 395 / HISTORY / SOC 332: Russia and the Soviet Union:
 Reform, Revolution, and the Socialist Experiment
- SLAVIC 396 / POLSCI 396 / REEES 396 / SOC 393: East Central Europe: Nationalism,
 Socialism, Democracy
- SOC 204: International Migration and the Politics of Membership in a Globalizing World (*only*
if elected FA19 or later)
- SOC / HISTORY 332 / POLSCI / REEES / SLAVIC 395: Russia and the Soviet Union:
 Reform, Revolution, and the Socialist Experiment
- SOC 393 / SLAVIC 396 / POLSCI 396 / REEES 396: East Central Europe: Nationalism,
 Socialism, Democracy
- SOC 430: World Population Dynamics
- SPANISH 438: Political & Economic Thought in Latin America/Spain
- STRATEGY 310: The World Economy
- STRATEGY 361: International Management
- STRATEGY / BA 445: Base of the Pyramid

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 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, 382, 387, 395, 396, 397, 451, 497
- **Methods**
381, 391, 488, 490, 499
- **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 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 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 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 2018

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 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 302, 303, 331/332, 341, 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.

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 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 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 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-:
 - o Modern Algebra: MATH 412 or 493
 - o Differential Equations: MATH 286 or 316
 - o 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.

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)
- Communication and Media
 - COMM 221: Quantitative Skills for Communication Studies (4)
- Complex Systems
 - CMLXSYS 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)
- 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 387: Comparative Analysis of Government Institutions (3)
 - POLSCI 485: Elections Forensic (3)
 - POLSCI 489: Advance Topics in Contemporary Political Science *section titled, "Computational Political Science"* (3)
- 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 381: Advanced Laboratory in Social Psychology (3)

- - PSYCH 448: Mathematical Psychology (3)
 - - PSYCH 463: Statistical Modeling and Data Visualization in R (4)
 - 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)
 - 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 (WGS 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]

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 (WGS 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 (WGS 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 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 / WGS 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 / WGS 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 / WGS 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 / WGS 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

REEES 490 / SOC 490 / WGS 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 / WGS 492: Women and Islam: A Sociological Perspective [ISLM]

Women's Studies

WGS / JUDAIC 224 / HISTORY 222: Sex and Sexuality in Jewish History and Culture (F18)

WGS 303 / HISTORY 303 / CLCIV 303: Women in the Ancient Mediterranean [COMP]

WGS 376 / JUDAIC 376: Women and the Bible [JUD]

WGS 414 / ENGLISH 415: Studies in Women and Literature: Early Women Writers

[CHR]WGS 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 2020-Fall 2021

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, 400 or above in Portuguese, 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
- PORTUG 287 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

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 3.5 in all courses, as well as 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, 400 or above in Portuguese, 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 after 1900:**
- 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, Ukrainian, 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, Ukrainian, 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, Ukrainian, 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:
 - o RUSSIAN 231, 301, 302, 303, 322, 346, 347, 348, 358, 361, 450, 451, 453, 462, 463, 464, 466, 469, 474, 478, 479, 480, 499
 - o 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 children's 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 invests 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:
 - o SCAND 351, 421, 430, 442, 460, 480.
 - o Appropriate (Scandinavian topic) sections of: ENGLISH 407, FTVM/ENGLISH 330, and FTVM 441.
 - o 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.

Screenwriting Submajor

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 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*)

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 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 ModernWorld (*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 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 324 / COMM 251 - Understanding Media Industries
- 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 (WGS 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 (WGS 461) - Explorations in Feminist Film Theory
- FTVM 475 – Popular Film and TV Culture
- FTVM 485 - The Global Screen

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.

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)

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.

Secondary Mathematics Teaching Certificate Submajor

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 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 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 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.

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 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 2021-Summer 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 (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 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 (WGS) / SOC 216: Thinking Class
- WGS (WGS) / NURS 220: Perspectives in Women's Health
- WGS 250 (WGS 250): Race, Gender and Nation
- WGS (WGS) / PSYCH 297: Promoting Equity and Inclusion in the Academy and the Workplace
- WGS (WGS) / PSYCH 309: Psychology of Social Change: Gender and Global Feminism
- WGS (WGS) / ENGLISH 314: Gender and Sexuality Studies in Literature, *section titled, "Narratives of Girlhood"*
- WGS (WGS) / ENGLISH 315: Women and Literature, *section titled, "Working-Class Women's Literature"*
- WGS 319 (WGS 319): Race, Class, and Women's Reproductive Health
- WGS 331 (WGS 331): Feminist Theoretical Perspectives in Gender and Health
- WGS 335 (WGS 335): Gender and Globalization
- WGS (WGS) / AAS / HISTORY 337: Black Women in the U.S., Part II: Contemporary Perspective in the 20th and 21st Centuries
- WGS (WGS) / AAS 365: Global Perspectives on Gender, Health, and Reproduction
- WGS 374 (WGS 374): Race, Gender and Incarceration
- WGS (WGS) / PSYCH 394: Sex, Sexuality and Public Policy
- WGS 410 (WGS 410): Reproductive Justice: Legal and Ethical Issues
- WGS (WGS) / AMCULT 411: Rednecks, Queers, and Country Music
- WGS 417 (WGS 417): Race, Gender, & Mental Health in the 19th Century
- WGS (WGS) / ANTHRO 428: Sex Panics in the UK and the US
- WGS (WGS) / ANTHRO 446: Sex and the City: Urban Geography and Sexual Locations
- WGS 443 (WGS 443): Pedagogy of Empowerment: Activism in Race, Gender, and Health

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
- 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 PrisonExchange"*
- 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 isCapitalism?"*
- MEMS 220: Knights, Peasants, and Bandits
- ORGSTUDY 495: Special Topics in Organizational Studies, *section titled: "Organizations andInequality: Race, Class, and Gender in Education"*
- POLSCI 332: The Politics of America's Economic Inequality
- RCSSCI 360: Social Science Junior Seminar, *section titled "Labor Movements, Inequality andDemocracy"*
- RCSSCI 365: Excellence, Equity, and the Politics of Education
- 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 495: Topics in Sociology, *section titled: "Inequality in Education"*
- SOC 503: The Sociology of Race, Ethnicity, and Immigration
- SOC 595 - Topics in Sociology, *sections titled: "Social Stratification" or "Stable and IntegratedHousing 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, courses in the RCSSCI subject area 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 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

A department advisor is available to students for one-on-one appointments to discuss the choice of sociology as a major (or minor), assist in course selection, and advise on co-curricular opportunities and career preparation. Students can schedule an advising appointment by calling the department at (734) 764-6324 or using the online appointment scheduler at www.lsa.umich.edu/soc. Students can also email socadvisor@umich.edu with questions.

Students wishing to pursue a minor in Law, Justice, and Social change must develop a specific plan for its completion in consultation with the department advisors. Appointments are scheduled online at: www.lsa.umich.edu/soc/undergraduate/advisingandprogrampolicies.

Students wishing to pursue a subplan in Sociology and Social Work must develop a specific plan for its completion in consultation with the department advisors. Appointments are scheduled online at www.lsa.umich.edu/soc/undergraduate/advisingandprogrampolicies.

In addition, the Social Work staff will be available to advise students interested in the optional preferred admissions process into the accelerated MSW program and related coursework. Students should contact the Office of Student Services at (734) 936-0961 to schedule a phone or in-person appointment.

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 first and 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.

Sociology and Social Work Submajor

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 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

A department advisor is available to students for one-on-one appointments to discuss the choice of sociology as a major (or minor), assist in course selection, and advise on co-curricular opportunities and career preparation. Students can schedule an advising appointment by calling the department at (734) 764-6324 or using the online appointment scheduler at www.lsa.umich.edu/soc. Students can also email socadvisor@umich.edu with questions.

Students wishing to pursue a minor in Law, Justice, and Social change must develop a specific plan for its completion in consultation with the department advisors. Appointments are scheduled online at: www.lsa.umich.edu/soc/undergraduate/advisingandprogrampolicies.

Students wishing to pursue a subplan in Sociology and Social Work must develop a specific plan for its completion in consultation with the department advisors. Appointments are scheduled online at www.lsa.umich.edu/soc/undergraduate/advisingandprogrampolicies.

In addition, the Social Work staff will be available to advise students interested in the optional preferred admissions process into the accelerated MSW program and related coursework. Students should contact the Office of Student Services at (734) 936-0961 to schedule a phone or in-person appointment.

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 first and 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.

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.

Sociology of Health and Medicine Minor

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 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

A department advisor is available to students for one-on-one appointments to discuss the choice of sociology as a major (or minor), assist in course selection, and advise on co-curricular opportunities and career preparation. Students can schedule an advising appointment by calling the department at (734) 764-6324 or using the online appointment scheduler at www.lsa.umich.edu/soc. Students can also email socadvisor@umich.edu with questions.

Students wishing to pursue a minor in Law, Justice, and Social change must develop a specific plan for its completion in consultation with the department advisors. Appointments are scheduled online at: www.lsa.umich.edu/soc/undergraduate/advisingandprogrampolicies.

Students wishing to pursue a subplan in Sociology and Social Work must develop a specific plan for its completion in consultation with the department advisors. Appointments are scheduled online at www.lsa.umich.edu/soc/undergraduate/advisingandprogrampolicies.

In addition, the Social Work staff will be available to advise students interested in the optional preferred admissions process into the accelerated MSW program and related coursework. Students should contact the Office of Student Services at (734) 936-0961 to schedule a phone or in-person appointment.

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 first and 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.

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.

[Sociology of Health & Medicine \(Sub-Major\)](#)

Effective Winter 2017

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.

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 2017-Summer 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 (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: 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/rl1). A grade point average of at least 3.5 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 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 and 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 subject area may not be used toward the Distribution Requirement.

Honors

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

Statistics Minor

The Statistics minor program is designed to equip students with a general introduction to probability and statistics. It allows a broad selection of classes to suit both general and specific interests.

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.

Structural Biology 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 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](#)

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.

Structural Biology Track (Sub-Major)

Effective Winter 2020

Prerequisites

- MATH 115 and 116
- CHEM 262
- CHEM 210 / 211, 215;
- PHYSICS 135 / 136 and 235 / 236 (*or* 140/141 and 240/241);
- 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.

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.

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 Winter 2012

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 207: Sustainability and Society.
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 EARTH 344 / ENVIRON 344: Sustainable and Fossil Energy: Options and Consequences
- o ENVIRON 302: Topics in Environmental Social Science, *section titled "Sustainable Neighborhoods: Experiential Learning and Active Engagement in Detroit"*
- o ENVIRON 398: Environment Internship Program

- ENVIRON 344 / EARTH 344: Sustainable and Fossil Energy: Options and Consequences
 - STDABRD 303: UM at Institute for Central American Development Studies, San Jose, Costa Rica
 - STDABRD 308: UM at EcoQuest New Zealand
 - STDABRD 358 UM/CIC Political Science Internships in British Government and Politics, London, England
 - 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.
- CEE 307 / ENVIRON 407: Sustainable Cities
 - ENVIRON 302: Topics in Environmental Social Science, *section titled "SustainableNeighborhoods: Experiential Learning and Active Engagement in Detroit"*
 - ENVIRON 391 / RCIDIV 391: Sustainable Campus
 - ENVIRON 401: Modeling Human-Natural Systems
 - ENVIRON 404: Cars, Energy, and Chemistry
 - ENVIRON 407 / CEE 307: Sustainable Cities
 - 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 496: Social Science Approaches to American Culture, *section titled "AmericanValues and Sustainability"*
- ANTHRCUL 256 / ENVIRON 256: Culture, Adaptation and Environment
- ANTHRCUL 439: Economic Anthropology and Development
- EDCURINS 382 / ENVIRON 382: Intro to Environmental Education and SustainableDevelopment
- ENGLISH 320: Literature and the Environment,
orENVIRON 377: Literature and the Environment
- ENVIRON 211: Social Sciences and Environmental Problems
- ENVIRON 222: Introduction to Environmental Justice
- ENVIRON 256 / ANTHRCUL 256: Culture, Adaptation and Environment
- ENVIRON 304: Topics in Culture and Environment
- ENVIRON 320: Environmental Journalism: Reporting about Science, Policy and PublicHealth
- 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,
orENGLISH 320: Literature and the Environment
- ENVIRON 382 / EDCURINS 382: Intro to Environmental Education and SustainableDevelopment

- 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 355: Contemporary Moral Problems
- 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

B. Business and Economics

- BIT 445 / STRATEGY 445: Base of the Pyramid: Business Innovation for Solving Society's Problems
- EARTH 380 / ENVIRON 380: Mineral Resources, Economics, and the Environment
- ENGR 390: Special Topics, *section titled "Social Entrepreneurship"*
- ENGR 521: Clean Tech Entrepreneurship
- ENVIRON 380 / EARTH 380: Mineral Resources, Economics, and the Environment
- SOC 315: Economic Sociology
- STRATEGY 310: World Economy
- 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 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 412: Environmental Values in Public Policy
- ENVIRON 449 / NRE 449: Organizational Theory and Change
- ENVIRON 475 / EHS 588 / NRE 475: Environmental Law
- 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 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 408 / AAS 409: Maternal/Child Health and Environmental Pollution in Africa
- EARTH 380 / ENVIRON 380: Mineral Resources, Economics, and the Environment
- EHS 500: Principles of Environmental Health Science
- ENVIRON 310: Toxicology: The Study of Environmental Chemicals and Disease
- ENVIRON 317: Conservation of Biological Diversity
- ENVIRON 380 / EARTH 380: Mineral Resources, Economics, and the Environment
- HMP 200 / PUBHLTH 200 / PUBPOL 210: Health and Society: Introduction to Public Health
- PUBHLTH 200 / HMP 200 / PUBPOL 210: Health and Society: Introduction to Public Health
- PUBPOL 210 / PUBHLTH 200 / HMP 200: Health and Society: Introduction to Public Health

E. Technology, Engineering, and Design

- 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
- ESENG 567 / CEE 567: Energy Infrastructure Systems
- ENVIRON 309: GIS Explorations of the Past, Present, and Future
- ENVIRON 367: Global Enterprise and Sustainable Development
- MECHENG 433 / AUTO 533: Advanced Energy Solutions
- NRE 574 / PUBPOL 519 / RCNSCI 419: Sustainable Energy Systems
- 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 progression 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 351: 3rd Year Ukrainian I
 - UKR 352: 3rd Year Ukrainian II
 - UKR 421: Directed Readings in Ukrainian Literature
 - 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 270 / JUDAIC 271: Contact and Conflict: Jewish Experience in Eastern Europe
 - 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 challenges of urban life and to expand their capacity for civic engagement and work in urban settings.

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:
 - RCSSCI 330: Urban and Community Studies I, *section titled "Historical and Theoretical Perspectives."*
 - URP 423 Introduction to Urban and Environmental Planning
2. 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.
3. 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
4. *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 /RCSSCI 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: Topics Course: *Select sections of this course may be eligible with advisor approval*

- AMCULT 204 / ASIANPAM 204 - Themes in American Culture: 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: 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"*
- RCSSCI 250; HISTORY 231; SOC 295 - Topics in Social Theory and Practice, *section titled "Policing, Power, and Protest in the United States"*
- RCSSCI 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
- RCSSCI 330 – Urban and Community Studies (if not used as the core course)
- RCSSCI 360 - Social Science Junior Seminar, *section titled, "Egalitarian Metropolis; Urban Studies, Urban Design & Social Justice in Detroit; 20th Century Detroit History"* ("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: RCSSCI 330 - Urban and Community Studies *section titled, "Historical and Theoretical Perspectives"*, 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 / RCSSCI 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
- 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
- RCSSCI 360 / LATINOAM 301 - Social Science Junior Seminar, *section titled, "Spanish Language Internship Program II"*
- RCSSCI 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 RCSSCI 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 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 see the Women's and Gender Studies website main page: www.lsa.umich.edu/women.

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 (WGS 240): Introduction to Women's and Gender Studies.

Prerequisites

WGS 240 (WGS 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 (WGS 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 350 (WGS 350): Nonprofit Management, Community Engagement, and Feminist Practice
 2. WGS 351 (WGS 351): Leading Feminism
 3. WGS / HS 404 (WGS / HS 404): Gender Based Violence: From Theory to Action
 4. WGS 425 (WGS 425): Feminist Practice of Oral History.
 5. SOC 225: Project Community: *various specifically approved topics - see department advisor*
 - D. **Electives:** Additional WGS or WGS 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 (WGS) 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.

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: www.lsa.umich.edu/women/undergraduate/honorsprogram

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 (WGS240): Introduction to Women's Studies and WGS 330 (WGS 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. For official and updated information, please view the LSA Course Catalog:
https://webapps.lsa.umich.edu/CrsMaint/Public/CB_PublicBulletin.aspx?crselevel=ug

College of Literature, Science & the Arts

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 111. Introduction to Africa and Its Diaspora

(4). (HU). (R&E). May not be repeated for credit. May not be included in a DAAS major. F.

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). May not be repeated for credit.

AAS 206. Issues in African Studies

AAS 111. (3). May not be repeated for credit. (African Studies).

AAS 207. Performing Arts and Power in Sub-Saharan Africa

(3). (ID). 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 211. Caribbean Culture: Literature, Music, and Politics

(3). May not be repeated for credit.

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 224 / HISTART 224. African Visual Cultures: Akan/Kongo/Yoruba

(3). 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. 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. 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). (R&E). *May not be repeated for credit.*

AAS 273 / AMCULT 273. The Southern Novel in Historical Context
 (3). (R&E). *May not be repeated for credit.*

AAS 275. Black women in Popular Culture
 (3). (ID). *May not be repeated for credit.*

AAS 290. Selected Topics in Black World Studies
 (2). *May not be repeated for credit.*

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 310 / HISTORY 310 / INTLSTD 310. Atlantic Slavery and the Making of the Modern World
 (3). (HU). (R&E). *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 320 / RELIGION 321. Religion in Afro-Atlantic History
 (3). (HU). *May not be repeated for credit.*

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 325. Advanced Yoruba I
 AAS 226 - Intermediate Yoruba II. (4). *May not be repeated for credit.*

AAS 326. Advanced Yoruba II
 (4). *May not be repeated for credit.*

AAS 329 / ENGLISH 334 / WGS 325. Writing Sex: Contemporary Black Women Writers
 (3). (HU). *May not be repeated for credit.*

AAS 330 / RCSSCI 330. Urban and Community Studies I
 (4). *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 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 342. Hip Hop Africa
 (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 / RCSSCI 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 352. Black Geographies: Race, Space and Place
 (3). (HU). *May not be repeated for credit.*

AAS 353 / ANTHRCUL 353. Urban Ethnography and the Black Experience
 (3). (SS). *May not be repeated for credit.*

AAS 354 / HONORS 354 / RCHUMS 354 / WGS 354. Race and Identity in Music
 (3). (HU). (R&E). *May not be repeated for credit.*

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 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 371. Black Arts Matter: Black Women Performers and Politics

(3). (HU). 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 383. Are We Not Men?: Masculinity in African American Expressive Cultures

(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 386. Reconstructing James Baldwin's Legacy through Black Digital Studies

(3). May not be repeated for credit.

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 394. Junior Seminar in Professional Writing

Upperclass standing. (4). May be repeated for a maximum of 8 credits. Cross-Area Course.

AAS 395 / GERMAN 396 / HISTORY 396. Germany and the Black Diaspora

(3). (HU). (R&E). May not be repeated for credit.

AAS 407 / HISTART 406. Looking at African Things

HISTART 208/AAS 208. (3). May not be repeated for credit. Rackham credit requires additional work.

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 422 / ANTHRCUL 411. African Cultures

AAS 200 (CAAS 200); and junior standing. (3; 2 in the half-term). May not be repeated for credit. (African Studies).

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 439 / LING 449. Creole Languages and Caribbean Identities

AAS 202. (3; 2 in the half-term). May not be repeated for credit. (Afro-Caribbean Studies).

AAS 443 / WGS 443. Pedagogy of Empowerment: Activism in Race, Gender, and Health

AAS 201, WGS/AMCULT 240 (WOMENSTD/AMCULT 240) or WGS/NURS 220 (WOMENSTD/NURS 220). (3). May not be repeated for credit.

AAS 453. Culture, Class, and Conflict in Southern Africa

AAS 200. (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 465. Health and African Development

(3). May not be repeated for credit.

AAS 480 / HISTART 408. The Future of Africa's past: Material Culture, History, and Heritage

AAS 200 (CAAS 200). (3). May not be repeated for credit.

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 102. First Year Seminar in Arab American Studies

Enrollment restricted to first-year students, including those with sophomore standing. (3). (SS). May not be repeated for credit.

AMAS 103. First Year Seminar in Arab American Studies

Enrollment restricted to first-year students, including those with sophomore standing. (3). (HU). May not be repeated for credit.

AMAS 204. Themes in Arab 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.

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 235 / AMCULT 235 / WGS 235. From Harems to Terrorists: Representing the Middle East in Hollywood Cinema

(4). (HU). (R&E). 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 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 330 / AMCULT 330. Camels, Kabobs, and Kahlil Gibran: Arab American Cultural Studies

Not available to students who have completed AMCULT 311 (topics #19 or #34) or ARABAM 311 (topics #1 or #5) when taught with the topic "Camels, Kabobs, and Kahlil Gibran: Arab American Cultural Studies.". (Prerequisites enforced at registration.) (3 - 4). (HU). (R&E). 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 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.

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 100. What is an American?

(4; 3 in the half-term). (SS). (R&E). May not be repeated for credit.

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 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

Basic knowledge of Spanish language. (3). (Lang Req). May not be repeated for credit. No credit granted to students who have completed SPANISH 290. 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). (R&E). May not be repeated for credit.

AMCULT 234 / ASIAN 232. Zen Masters, Dharma Bums, and Drag Queens: Buddhism in America

(3). (HU). May not be repeated for credit.

AMCULT 235 / AMAS 235 / WGS 235. From Harems to Terrorists: Representing the Middle East in Hollywood Cinema

(4). (HU). (R&E). 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 263 / HISTORY 262. The American South

(4; 3 in the half-term). (SS). (R&E). May not be repeated for credit.

AMCULT 270 / HISTORY 270. Religion in America

(4). (HU). May not be repeated for credit.

AMCULT 273 / AAS 273. The Southern Novel in Historical Context

(3). (R&E). 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 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 284 / HISTORY 284. Sickness and Health in Society: 1492 to the Present

First-year students must obtain permission of the instructor. (3 - 4; 3 in the half-term). (SS). May not be repeated for credit.

AMCULT 287 / ENGLISH 287 / LATINOAM 287. Introduction to Latinx Literatures

(3). (HU). 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 293 / WGS 293. 20th Century Writing by Women of Color

(3). (HU). May not be repeated for credit.

AMCULT 295 / WGS 295. Sexuality in Western Culture

(3). (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 / RCSSCI 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 306 / ASIAN 391 / HISTORY 334. Milk

(3). (HU). May not be repeated 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 314 / ASIANPAM 314 / HISTORY 378. History of Asian Americans in the U.S.

(4; 3 in the half-term). (SS). May not be repeated for credit.

AMCULT 318 / GREEKMOD 318. Greek-American Culture

(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 330 / AMAS 330. Camels, Kabobs, and Kahlil Gibran: Arab American Cultural Studies

Not available to students who have completed AMCULT 311 (topics #19 or #34) or ARABAM 311 (topics #1 or #5) when taught with the topic "Camels, Kabobs, and Kahlil Gibran: Arab American Cultural Studies.". (Prerequisites enforced at registration.) (3 - 4). (HU). (R&E). 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 335. Arts and Culture in American Life

(4; 3 in the half-term). (HU). May not be repeated for credit. F.

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 342 / HISTORY 368 / WGS 360. History of the Family in the U.S.

(4; 3 in the half-term). (ID). (R&E). May not be repeated for credit.

AMCULT 345. American Politics and Society

(3). (SS). May not be repeated for credit.

AMCULT 346 / DIGITAL 346 / FTVM 346 / GERMAN 346. Media Matter: From Print to Screen Culture

(3). (HU). May not be repeated for credit.

AMCULT 347 / DIGITAL 347. Politics of Code

(3 - 4). (ID). 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 353 / ASIANPAM 353 / HISTORY 454. Asians in American Film and Television

(4; 3 in the half-term). (ID). (R&E). May not be repeated for credit.

AMCULT 355. Topics in American Creative Expression

(1 - 3). (CE). May be repeated for a maximum of 6 credits. May be elected more than once in the same term.

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 360 / DIGITAL 360. Radical Digital Media

Not available to students who have completed AMCULT 358 Topics in Digital Studies when taught with the topic "Radical Digital Media" (topic #1) or AMCULT 405 Topics in American Culture when taught with the topic "Radical Digital Media" (topic #31). (Prerequisites enforced at registration.) (3). (HU). May not be repeated for credit.

AMCULT 361 / EDUC 395 / ELI 395 / LATINOAM 361 / LING 391 / RCSSCI 395. Principles and Practices of Teaching ESL in Migrant Communities

(3). (R&E). (EXPERIENTIAL). May be elected three times for credit.

AMCULT 362 / EDUC 396 / ELI 396 / LATINOAM 362 / LING 396 / RCSSCI 396. Migrant Community Outreach and ESL Teaching Practicum

ELI 395; completed with a minimum grade of C or better. (Prerequisites enforced at registration.) (2 - 3). (EXPERIENTIAL). May be elected three times for credit.

AMCULT 363 / ASIANPAM 363 / WGS 363. Asian/Pacific Islander American Women

(3). 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 371 / HISTORY 371 / WGS 371. Sex and Gender in U.S. History, 1600-2015

Students will not receive credit for this course if they've taken HISTORY 328 with the title "Sex and Gender in U.S. History, 1600-2000" (topic ID #48). (Prerequisites enforced at registration.) (3 - 4). (HU). (R&E). 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 375 / HISTORY 370 / WGS 370. Queer Histories of the United States, 1850 to the Present

(4; 3 in the half-term). (SS). 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 380 / DIGITAL 380 / FTVM 380 / LATINOAM 380. Studies in Transnational Media

Prior coursework in Film Television, and Media, Communications (TV), or Latino Studies. Knowledge of Spanish is not required. (3). May not be repeated for credit. Taught in English.

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 385 / HISTORY 335 / ISLAM 335 / LATINOAM 385. Immigration Law: Critical Approaches to Contemporary Issues

(3 - 4; 3 in the half-term). (SS). 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 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 399. Race in America

(4; 3 in the half-term). (SS). (R&E). 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. Ethics and Information Technology

(4). 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 425 / WGS 425. Feminist Practice of Oral History

One course in WGS (WOMENSTD) or AMCULT. (3). May not be repeated for credit. Rackham credit requires additional work.

AMCULT 426 / HISTORY 426. Skin/Masks: Violence and (De)Colonization

(3). May not be repeated for credit.

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 461 / ANTHRCUL 461 / LING 461 / NATIVEAM 461. Language, Culture, and Society in Native North America

(3). May not be repeated for credit.

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 102. First Year Seminar in Asian/Pacific Islander American Studies

Enrollment restricted to first-year students, including those with sophomore standing. (3). (SS). May not be repeated for credit.

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 310. Asian/Pacific Islander 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.

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 314 / AMCULT 314 / HISTORY 378. History of Asian Americans in the U.S.

(4; 3 in the half-term). (SS). May not be repeated for credit.

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

(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 353 / AMCULT 353 / HISTORY 454. Asians in American Film and Television

(4; 3 in the half-term). (ID). (R&E). 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 363 / AMCULT 363 / WGS 363. Asian/Pacific Islander American Women

(3). 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 405. 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 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 103. First Year Seminar in Latina/o Studies

Enrollment restricted to first-year students, including those with sophomore standing. (3). (HU). May not be repeated for credit.

LATINOAM 204. Themes in Latina/o 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.

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

Basic knowledge of Spanish language. (3). (Lang Req). May not be repeated for credit. No credit granted to students who have completed SPANISH 290.

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 287 / AMCULT 287 / ENGLISH 287. Introduction to Latinx Literatures

(3). (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 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 327 / AMCULT 327 / ENGLISH 387. Latina/Latino Literature of the U.S.

(3). (HU). May not be repeated for credit.

LATINOAM 361 / AMCULT 361 / EDUC 395 / ELI 395 / LING 391 / RCSSCI 395. Principles and Practices of Teaching ESL in Migrant Communities

(3). (R&E). (EXPERIENTIAL). May be elected three times for credit.

LATINOAM 362 / AMCULT 362 / EDUC 396 / ELI 396 / LING 396 / RCSSCI 396. Migrant Community Outreach and ESL Teaching Practicum

ELI 395; completed with a minimum grade of C or better. (Prerequisites enforced at registration.) (2 - 3). (EXPERIENTIAL). May be elected three times 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 380 / AMCULT 380 / DIGITAL 380 / FTVM 380. Studies in Transnational Media

Prior coursework in Film Television, and Media, Communications (TV), or Latino Studies. Knowledge of Spanish is not required. (3). 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 385 / AMCULT 385 / HISTORY 335 / ISLAM 335. Immigration Law: Critical Approaches to Contemporary Issues

(3 - 4; 3 in the half-term). (SS). 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). (R&E). 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 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 461 / AMCULT 461 / ANTHRCUL 461 / LING 461. Language, Culture, and Society in Native North America

(3). May not be repeated for credit.

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 280. Making Things: Three Million Years of Materials and Culture

(4). (SS). 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 289. Ancient Technologies: Production, Use, and Evolution

(3). (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 398. Honors in Anthropological Archaeology

Senior standing. (Prerequisites enforced at registration.) (3). (INDEPENDENT). May be repeated for a maximum of 6 credits.

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 486. Archaeological Methods

This course requires field work; students who do not want to conduct field work should not register. Students should have taken an introductory archaeology course before enrolling for ANTHRARC 486. (4). 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 492. The Archaeology of the Pacific

ANTHRARC 101, ANTHRARC 282, or junior standing. (3). May not be repeated for credit.

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 166. First Year Seminar: Searching for Human Origins

Enrollment restricted to first-year students, including those with sophomore standing. (3). (NS). (BS). May not be repeated for credit.

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 361. Biology, Society, and Culture

Sophomore standing. (4). (NS). (BS). (R&E). 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 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 ANTHRARC 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 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 465. Primate Functional Anatomy

ANTHRBIO 201, 365, 366 or 368. (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. ANTHR BIO 467. (2). (BS). May not be repeated for credit.

ANTHRBIO 474. Hominin Origins

ANTHRBIO 365. (4). (BS). May not be repeated for credit.

ANTHRBIO 475. Evolution of Genus Homo

ANTHRBIO 351 or 365. (Prerequisites enforced at registration.) (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 ANTHR BIO 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). May not be repeated for credit.

ANTHRCUL 246 / ISLAM 246 / RELIGION 246. Anthropology of Religion

(4). (HU). May not be repeated for credit.

ANTHRCUL 249 / STS 249. Sound, Music, and Noise

(4). (SS). May not be repeated for credit.

ANTHRCUL 252. Law and Culture

(4). (SS). 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). 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 / RCSSCI 327 / STS 327 / WGS 307. Critical Theory in Medicine and Healing

One course in ANTHRCUL or RCSSCI or WGS/AMCULT 240 (WOMENSTD/AMCULT 240) or WGS (WOMENSTD) with an SS designation. (4). (SS). May not be repeated for credit.

ANTHRCUL 328. Globalizing Consumer Cultures

(3). (SS). May not be repeated for credit.

ANTHRCUL 330. Culture, Thought, and Meaning

(4). (HU). May not be repeated for credit.

ANTHRCUL 331. Kinship, Social Organization, and Society

One course in Anthropology. (3). (SS). 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 333. Non-Western Legal Systems, I

Sophomore standing. (3). (SS). May not be repeated for credit. F.

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 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
(4). (SS). May not be repeated for credit.

ANTHRCUL 348 / INTLSTD 381 / MIDEAST 381. Anthropology of Islam
(3). (SS). May not be repeated for credit.

ANTHRCUL 349. Indigenous Political Movements
(3). (SS). May not be repeated for credit.

ANTHRCUL 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 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 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 402. China from Below
Junior standing. (3). 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 411 / AAS 422. African Cultures
AAS 200 (CAAS 200); and junior standing. (3; 2 in the half-term). May not be repeated for credit.

ANTHRCUL 414. Introduction to Caribbean Societies and Cultures, I
Junior standing or above. (3). May not be repeated for credit.

ANTHRCUL 415. Andean Civilization
Consent of instructor required. Concentration in Anthropology. (3; 2 in the half-term). May not be repeated for credit. W.

ANTHRCUL 417 / ASIAN 416. Possessing Culture: Mediumship and Ethnography in Southeast Asia
Some coursework in cultural anthropology or Southeast Asian studies is useful, but not required. (3). May not be repeated for credit.

ANTHRCUL 428 / RCSSCI 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 439. Economic Anthropology and Development
Junior standing or permission of instructor. (3; 2 in the half-term). May not be repeated for credit.

ANTHRCUL 440. Environmental Anthropology
Junior standing or above. (3). May not be repeated for credit.

ANTHRCUL 442. Ethnography Lab
Consent of instructor required. Elementary Spanish reading skills preferred. (3). May be elected four times for credit. Rackham credit requires additional work.

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 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 461 / AMCULT 461 / LING 461 / NATIVEAM 461. Language, Culture, and Society in Native North America

(3). May not be repeated for credit.

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 519 / GERMAN 517 / LING 517. Principles and Methods of Historical Linguistics

Graduate standing, or permission of instructor. (3; 2 in the half-term). May not be repeated for credit.

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 572 / LING 542. Introduction to Sociolinguistics

One of LING 313, 315, or 316 or graduate standing. (Prerequisites enforced at registration.) (3; 2 in the half-term). May not be repeated for credit.

LSA Applied Physics

Courses In Applied Physics (APPPHYS)

APPPHYS 530 / EECS 530. Electromagnetic Theory I

PHYSICS 438 or EECS 330. (3). (BS). May not be repeated for credit. F.

APPPHYS 540 / EECS 540. Applied Quantum Mechanics

Permission of instructor. (3). (BS). May not be repeated for credit.

APPPHYS 541 / EECS 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 201. Society and Culture in Contemporary Japan

(4; 3 in the half-term). (SS). May not be repeated for credit.

ASIAN 203 / FTVM 233. Haunted by History: Asian Horror Cinema

(4). (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 211 / RELIGION 212 / SEAS 211. Monks, Magic and Mediums: Buddhism in Southeast Asia

(3). (HU). 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

(3). (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 232 / AMCULT 234. Zen Masters, Dharma Bums, and Drag Queens: Buddhism in America
(3). (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 244. Seeds of Conflict: Intercultural Encounters in Japan from 745-1945
(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 252. Undergraduate Seminar in Japanese Culture
No knowledge of Japanese language is required. (3). (HU). May be elected twice 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 261. Introduction to Modern Chinese Culture
No knowledge of Chinese required. (4). (HU). May not be repeated for credit. Taught in English.

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 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 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
(3). (HU). May not be repeated for credit.

ASIAN 308 / RCHUMS 308. Arts and Ideas of Modern South and Southeast Asia
(3). (HU). (R&E). May not be repeated for credit.

ASIAN 310 / WGS 311. Family in Japan
(3). (SS). 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 318. HU Topics in Japanese Studies

At least one previous course on Japan. 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 319 / RELIGION 319. Spirits of Contemporary Japan in Popular Culture

ASIAN 200. (3). (HU). May not be repeated for credit.

ASIAN 320. Japanese Performance Culture

(3). (HU). May not be repeated for credit.

ASIAN 322. War Tales: Histories of Violence in Medieval and Early Modern Japan and China

(3). (HU). May not be repeated for credit.

ASIAN 323. Japan in Crisis: Disasters, War, and Contagion, Past and Present

An interest in Asia. Previous exposure to or study of Japan is helpful but not required. (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 327. Thai Buddhism and Film

(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 329. Buddhism, Politics, and Violence in Modern Asia

(3). (HU). May not be repeated for credit.

ASIAN 332. South Asian Identity: Writing Home from Away

(3). (HU). May not be repeated for credit.

ASIAN 334. Race, Religion, and Caste in India and America

(3). (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 339. Migrants and Militants: the Sikh and Punjabi Diaspora

(3). (HU). May not be repeated for credit.

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 347 / SEAS 347. Thailand: Culture, Society, and Politics

(3). (ID). May not be repeated for credit.

ASIAN 348. Humanities Topics in Southeast Asian Studies

At least one prior course on Southeast 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 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. War, Rebellion and Revolution in China Through Two Centuries

(4; 3 in the half-term). (SS). May not be repeated for credit.

ASIAN 355. How Communism Changed China

(3). (HU). May not be repeated for credit.

ASIAN 356 / RCHUMS 374. Contemporary Chinese Performance Culture

(3). (HU). 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 363. Chinese Drama and Theater

(3). (HU). May not be repeated for credit.

ASIAN 364. The Development of Chinese Fiction
(3). (HU). May not be repeated for credit.

ASIAN 366. Controversies in Contemporary China
ASIAN 260 or ASIAN 261. (3). (ID). May not be repeated for credit.

ASIAN 367 / LING 367. Languages of Asia
(3). (HU). May not be repeated for credit.

ASIAN 368 / LING 368. How Different is Chinese?
(3). (HU). May not be repeated for credit.

ASIAN 369. Chinese Film
(3). (HU). May not be repeated for credit.

ASIAN 370. Acupuncture: Historical and Contemporary Transformations
(3). (ID). May not be repeated for credit.

ASIAN 371 / RCSSCI 371. Natural Disasters in East Asia
(4). (SS). May not be repeated for credit.

ASIAN 373 / RCHUMS 373. The Performing Arts in South and Southeast Asia
(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 375. Modern Korean Literature
(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 384. Humanities Topics in Korean Studies
At least one prior course on Korea. 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 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 391 / AMCULT 306 / HISTORY 334. Milk
(3). (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. This 2nd 7 week mini course will meet 3/8/21 - 4/21/21 with a drop/add deadline of 3/22/21.

ASIAN 400 / HISTORY 422 / RELIGION 400. India and the West
Junior and above. (3). May not be repeated for credit. Rackham credit requires additional work.

ASIAN 408 / HISTORY 438 / WGS 408. Women, Gender, and Health in East Asia: Historical and Contemporary Perspectives
(3). May not be repeated for credit.

ASIAN 416 / ANTHRCUL 417. Possessing Culture: Mediumship and Ethnography in Southeast Asia
Some coursework in cultural anthropology or Southeast Asian studies is useful, but not required. (3). May not be repeated for credit.

ASIAN 422. Topics in Southeast Asian Studies
(3). May be elected twice for credit.

ASIAN 424 / HISTORY 424. Topics in Modern South Asian 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. Rackham credit requires additional work.

ASIAN 428 / POLSCI 339. China's Evolution Under Communism
Upperclass standing. (4; 3 in the half-term). May not be repeated for credit.

ASIAN 432. Topics in South Asian Studies
(3). May be elected twice for credit.

ASIAN 440. National Cinema of Asia
(3). May be repeated for a maximum of 6 credits.

ASIAN 441. Literature, Film and the City: Imagining the Urban in Modern Japan
Prior 200-level or 300-level courses on modern Japan or East Asia. (3). May not be repeated for credit.

ASIAN 442. Topics in Japanese Studies
(3). May be elected twice 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 452. Topics in Korean Studies

(3). May be elected twice for credit.

ASIAN 457. Translating Korean Poetry: Theory and Practice

Third-year proficiency in Korean. (3). May not be repeated for credit.

ASIAN 458 / FTVM 458. Film Culture in Korea

(3). May not be repeated for credit.

ASIAN 465 / HISTART 466. Sacred Image/Sacred Place in Japanese Art

(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 483. The Lives of the Buddha, from India to Manga

(3). May not be repeated for credit.

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 486 / RELIGION 486. Buddhist Meditation

ASIAN 230. (3). May not be repeated for credit.

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. Accelerated Elementary Chinese

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 103. Intensive First Year Chinese

Consent of instructor required. (10). May not be repeated for credit. No credit granted to those who have completed or are enrolled in ASIANLAN 100, 101, 102, 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 127. Intensive First Year Japanese

Permission of instructor. (10). May not be repeated for credit. No credit granted to those who have completed or are enrolled in ASIANLAN 124, 125, 126, 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 137. Intensive First Year Korean

Consent of instructor required. (10 in the half-term). May not be repeated for credit. No credit granted to those who have completed or are enrolled in ASIANLAN 135 or 136.

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 203. Intensive Second Year Chinese

ASIANLAN 102 or 103. (Prerequisites enforced at registration.) (10). (Lang Req). May not be repeated for credit. No credit granted to those who

have completed or are enrolled in ASIANLAN 201 or 202.

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 227. Intensive Second Year Japanese

ASIANLAN 126 or 127 or 129 or RCLANG 196. (Prerequisites enforced at registration.) (10). (Lang Req). May not be repeated for credit. No credit granted to those who have completed or are enrolled in ASIANLAN 225 or 226 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 237. Intensive Second Year Korean

ASIANLAN 136 or 137. (Prerequisites enforced at registration.) (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 ASIANLAN 235 or 236.

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 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 401. Advanced Spoken Chinese I

ASIANLAN 302 or by assignment of a 400-level Chinese course by Placement Test. (Prerequisites enforced at registration.) (2). May not be repeated for credit.

ASIANLAN 402. Advanced Spoken Chinese II

ASIANLAN 302 or ASIANLAN 306. (Prerequisites enforced at registration.) Not intended for native speakers of Chinese. (2). 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 435. Advanced Reading and Writing in Korean
ASIANLAN 336. (Prerequisites enforced at registration.) (2). 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. (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.

Courses In Buddhist Studies (BUDDHST)

BUDDHST 401. Chinese Translation Practicum

(1) either 4th-year (8-semester) equivalency in Chinese or 1-year of classical Chinese & (2) either ASIAN 521 Sources in Buddhist Studies or ASIAN 527 History of Buddhist Studies. (Prerequisites enforced at registration.) Undergraduates must get permission to enroll. (3). May be elected four times for credit.

BUDDHST 402. Tibetan Translation Practicum

(1) 1-year of classical Tibetan or equivalent & (2) either ASIAN 521 Sources in Buddhist Studies or ASIAN 527 History of Buddhist Studies. (Prerequisites enforced at registration.) Undergraduates must get permission to enroll. (3). May be elected four times for credit.

BUDDHST 403. Korean Translation Practicum

(1) either 4th-year (8-semester) equivalency in Korean or 1-year of classical Chinese (or Hanja) & (2) either ASIAN 521 Sources in Buddhist Studies, or ASIAN 527 History of Buddhist Studies. (Prerequisites enforced at registration.) Undergraduates must get permission to enroll. (3). May be elected four times for credit.

BUDDHST 404. Japanese Translation Practicum

(1) either 4th-year (8-semester) equivalency in Japanese or 1-year of classical Japanese & (2) either ASIAN 521 Sources in Buddhist Studies, or ASIAN 527 History of Buddhist Studies. (Prerequisites enforced at registration.) Undergraduates must get permission to enroll. (3). May be elected four times for credit.

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 or ASTRO 188.

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 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 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). 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.

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 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 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). (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 201. Intermediate Topics in Biology

BIOLOGY 171 and either 172 or 174; or BIOLOGY 192; or BIOLOGY 195. (1 - 4). (NS). (BS). May be elected three times for credit. May be elected more than once in the same term.

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 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 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). May not be repeated for credit.

BIOPHYS 120. The Discovery of the DNA Double Helix and its Hidden Mysteries

(3). (NS). (BS). (QR/1). May not be repeated for credit.

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

PHYSICS 125 or 135 or 140 or 160. (Prerequisites enforced at registration.) MATH 115 or equivalent AP credits. (3). (NS). (BS). (QR/2). May not be repeated for credit.

BIOPHYS 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 401. Special Topics in Biophysics

Seniors or graduate standing. (1 - 3; 1 in the half-term). (BS). May be repeated for a maximum of 6 credits. May be elected more than once in the same term. Rackham credit requires additional work.

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 435. Biophysical Modeling

Students should have knowledge of multivariable or applied calculus as found in, for ex: MATH 215 or CHEM 262. (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 / PHYSICS 445. Introduction to Information Theory for the Natural Sciences

MATH 215 (Multivariable and Vector Calculus). (Prerequisites enforced at registration.) MATH 425/STATS 425. (3). 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 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. Students who have completed CHEM 216 will not receive credit for CHEM 211.

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

Prior or concurrent enrollment in CHEM 230 or 260, and concurrent enrollment in CHEM 242. (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

Prior or concurrent enrollment in CHEM 230 or 260, and 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 135 or 140 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.

CHEM 420. Intermediate Organic Chemistry

CHEM 215 and 216 or their equivalents. (3). (BS). May not be repeated for credit.

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 260. (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 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 447 and 461/462; and concurrent enrollment in CHEM 463. (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.

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. To be elected in the term in which an Honors student presents a thesis.

CHEM 499. Undergraduate Thesis

Consent of instructor required. CHEM 399 and permission of instructor. (1). (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, the final grade is posted for both term's elections. To be elected in the term in which an Honors student presents a thesis.

CHEM 507. Inorganic Chemistry

CHEM 461. (3). (BS). May not be repeated for credit.

CHEM 511 / MATSCIE 510. Materials Chemistry

CHEM 461, BIOLCHEM 415, CHEM 430; and permission of course director. (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 Classical Archaeology (CLARCH)

CLARCH 103. Great Discoveries in Archaeology

(3). (HU). May not be repeated for credit.

CLARCH 104. Ancient Cities

(3 - 4). (HU). May not be repeated for credit.

CLARCH 125. Mini-Course in Classical Archaeology

(1). (HU). May be repeated for a maximum of 3 credits. May be elected more than once in the same term.

CLARCH 220 / HISTART 220. Great Buildings of Ancient Greece and Rome

(4; 3 in the half-term). (HU). May not be repeated for credit.

CLARCH 221 / HISTART 221. Introduction to Greek Archaeology

(4; 3 in the half-term). (HU). May not be repeated for credit. F.

CLARCH 222 / HISTART 222. Introduction to Roman Archaeology

(4; 3 in the half-term). (HU). May not be repeated for credit. W.

CLARCH 250. Topics in Classical Archaeology
 (2 - 3). (HU). May be repeated for a maximum of 6 credits. May be elected more than once in the same term.

CLARCH 323. Introduction to Field Archaeology
 (4; 3 in the half-term). (HU). May not be repeated for credit.

CLARCH 327 / CLCIV 327 / MIDEAST 355 / RELIGION 326. Jews in the Roman Mediterranean: Archaeology, Religion, and Culture
 (3). (ID). May not be repeated for credit.

CLARCH 350. Topics in Classical Archaeology
 CLARCH 221, 222, or 323. (3). (HU). May be repeated for a maximum of 12 credits.

CLARCH 354 / CLCIV 354 / MIDEAST 354 / RELIGION 353. Ancient Jerusalem: Archaeology, Religion, and Culture
 (3). (ID). May not be repeated for credit.

CLARCH 375 / GREEKMOD 375. Engaging Antiquity: Heritage, Museums, Media, Tourism, and Communities
 (3). (HU). May not be repeated for credit.

CLARCH 380 / HISTART 380. Minoan and Mycenaean Archaeology
 Consent of instructor required. Upperclass standing, CLARCH/HISTART 221 and 222, and permission of instructor. (3). May not be repeated for credit.

CLARCH 382 / CLCIV 382. Food in the Ancient World: Subsistence and Symbol
 (3). (HU). May not be repeated for credit.

CLARCH 383 / CLCIV 383. Death in the Ancient World
 (3). (HU). May not be repeated for credit.

CLARCH 387 / HISTART 387. Archaeology of Ancient Housing
 (3). May not be repeated for credit.

CLARCH 389 / CLCIV 379 / HISTART 389. Pompeii
 (3 - 4). (HU). May not be repeated for credit.

CLARCH 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.

CLARCH 424 / HISTART 424. Archaeology of the Roman Provinces
 Upperclass standing, and CLARCH/HISTART 221 or 222. (3). May not be repeated for credit.

CLARCH 425. Hellenistic and Republican Roman Architecture
 CLARCH 222. (3). May not be repeated for credit. Rackham credit requires additional work.

CLARCH 433 / HISTART 433. Greek Sculpture
 Upperclass standing, some preparation in Classical Civilization, Classical Archaeology or History of Art. (3; 2 in the half-term). May not be repeated for credit. Rackham credit requires additional work.

CLARCH 435 / HISTART 435. The Art and Archaeology of Asia Minor
 Upperclass standing. (3). May not be repeated for credit.

CLARCH 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.

CLARCH 443 / HISTART 443. The Art and Archaeology of Greek Colonization
 Upperclass standing and CLARCH/HISTART 221. (3). May not be repeated for credit.

CLARCH 470. Upper Level Topics in Classical Archaeology
 (2 - 4). May be elected twice for credit.

CLARCH 482. Ceramic Analysis
 (3). May not be repeated for credit. Rackham credit requires additional work.

CLARCH 495. Senior Honors Research
 Consent of instructor required. Upperclass standing. (1 - 3). (INDEPENDENT). May be repeated for a maximum of 6 credits.

CLARCH 496. Practicum in Museum Studies
 Junior or seniors, or permission of instructor. (1 - 3). (EXPERIENTIAL). May be repeated for a maximum of 6 credits.

CLARCH 497. Practicum in Field Archaeology
 Junior or seniors. (1 - 3). (EXPERIENTIAL). May be repeated for a maximum of 6 credits.

CLARCH 499. Supervised Reading
 Consent of instructor required. (1 - 3). (INDEPENDENT). May be repeated for credit. May be elected more than once in the same term. F, W, Sp, Su.

CLARCH 536 / HISTART 536. Hellenistic and Roman Sculpture
 HISTART 101; one of CLARCH 221 or 222 or HISTART 221 or 222; and Upperclass standing. (3). May not be repeated for credit. Rackham credit requires additional work.

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 240. Classics Study Abroad Topics

Consent of department required. (2 - 3). (HU). May be elected twice 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 257 / HISTORY 257 / JUDAIC 257. Ancient Law

(4; 3 in the half-term). (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 303 / HISTORY 303 / WGS 303. Women in the Ancient Mediterranean

(3). (HU). May not be repeated for credit.

CLCIV 327 / CLARCH 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 350. Topics in Classical Civilization

CLCIV 101 and 102. (3). (HU). May be repeated for a maximum of 6 credits.

CLCIV 354 / CLARCH 354 / MIDEAST 354 / RELIGION 353. Ancient Jerusalem: Archaeology, Religion, and Culture

(3). (ID). May not be repeated for credit.

CLCIV 367 / PHIL 391. Plato

One philosophy class. (3; 2 in the half-term). (HU). May not be repeated for credit.

CLCIV 369 / PHIL 393. Post-Aristotelian Philosophy

(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. Emperors of Rome

(4; 3 in the half-term). (HU). May not be repeated for credit.

CLCIV 379 / CLARCH 389 / HISTART 389. Pompeii

(3 - 4). (HU). May not be repeated for credit.

CLCIV 382 / CLARCH 382. Food in the Ancient World: Subsistence and Symbol

(3). (HU). May not be repeated for credit.

CLCIV 383 / CLARCH 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 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 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.

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. (4). (Lang Req). 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 307 / MELANG 307. The Synoptic Gospels: Matthew, Mark and Luke

GREEK 101 and 102; and permission of instructor. (4). May not be repeated for credit. Taught in Greek. The language requirement is satisfied with successful completion of both GREEK 307 AND 308.

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 440. Archaic Hexameter

GREEK 402. (3; 2 in the half-term). May not be repeated for credit.

GREEK 451. Comedy

GREEK 402. (3). May not be repeated for credit. Rackham credit requires additional work.

GREEK 462. Plato: Republic

GREEK 401. (3). May be elected twice for credit.

GREEK 470. Topics in Greek Literature

Consent of department required. (3). May be elected twice for credit. Rackham credit requires additional work.

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 105. Elementary Modern Greek Conversation

GREEKMOD 101. (1). May be elected twice for credit. Offered mandatory credit/no credit.

GREEKMOD 125. Mini Course in Modern Greek Studies

(1). (HU). May be repeated for a maximum of 3 credits. May be elected more than once in the same term.

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 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 325. Athens, Present and Past

(3). (HU). 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 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 / CLARCH 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 195. Intensive Latin I

(8). May not be repeated for credit. No credit granted to those who have completed or are enrolled in LATIN 101, 102, 103, or RCLANG 195.

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. Late Latin

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 240. Latin Study Abroad Topics

Consent of instructor required. (2 - 3). May be elected twice 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 325 / RCLANG 325. Readings in Latin Drama: From Text to Performance

One of RCLANG 295, LATIN 194, 195, 232, or 233, or permission of instructor. (4). May be elected twice 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 436 / MEMS 441. Postclassical Latin II

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 449. Roman Satire

At least one intermediate LATIN course (LATIN 401, 402, 409, 410). (3). May not be repeated for credit.

LATIN 461. Livy

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 529.

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 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 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). (Prerequisites enforced at registration.) (4). (SS). May not be repeated for credit.

COMM 271. Communication Revolutions

COMM 101 (completed with a minimum grade of C or better). (Prerequisites enforced at registration.) (4). (HU). May not be repeated for credit.

COMM 281. Media Psychology

COMM 102 (completed with a minimum grade of C or better). (Prerequisites enforced at registration.) (4). (SS). May not be repeated for credit.

COMM 290 / ALA 290. Public Speaking in the Digital Age

(3). 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 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 318 / PSYCH 318. Media and Violence

COMM 281 strongly recommended. (4). May not be repeated for credit. No credit granted to students who have completed COMM/PSYCH 481, Media & Violence (Crse ID #019987).

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 329 / POLSCI 329. Mass Media and Political Behavior

(4). (SS). May not be repeated for credit.

COMM 340. Gender and the Media

COMM 101 strongly advised. (4). (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. (Prerequisites enforced at registration.) (4). May not be repeated for credit.

COMM 362. Digital Media Foundations

(4). 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. (Prerequisites enforced at registration.) (4). May not be repeated for credit.

COMM 380. Persuasion, Communication and Campaigns

COMM 102 with a minimum grade of C or better. (Prerequisites enforced at registration.) (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 413 / ENVIRON 413. Environmental Communication

(3). May not be repeated for credit.

COMM 414. Fashion and Media

COMM 101 strongly recommended. (3). May not be repeated for credit.

COMM 417 / ENVIRON 417. Marketing for Social Change

(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 425. Internet, Society and the Law

COMM 251 or COMM 271 strongly recommended. (3). May not be repeated for credit.

COMM 428. Gender, Media and the Law

Not available to students who have completed COMM 459 (crse ID#19977), Topic: Gender and Law (Topic #11). (Prerequisites enforced at registration.) COMM 251 or COMM 271 strongly recommended. (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 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 462. Feeling Political? Affect, Emotion, and Personality in Political Communication

Declared Communication Studies seniors only. (Prerequisites enforced at registration.) (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 465. Health Communication and Health Behavior Change

Declared Communication Studies seniors ONLY. (Prerequisites enforced at registration.) COMM 281 or 380 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 482. Children and the Media

Declared Communication Studies Seniors ONLY. (Prerequisites enforced at registration.) COMM 281 strongly recommended. (3). May not be repeated for credit. No more than three credits can be elected 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 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 251/491 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 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

COMPLIT 240. (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 280. America and Its Others

(3). (HU). May be elected twice 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). 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). 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 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 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 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 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 196. First-Year Seminar in Complex Systems**

(3). (MSA). (BS). (QR/2). 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). 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. Agent-Based Modeling

(3). May not be repeated for credit. Only 2 credits earned by students enrolled in or having completed CMPLXSYS 200.

CMPLXSYS 389. Topics in Complex Systems

Technical prerequisites vary with topic. (3). May be elected three times 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 425. Evolution in Silico

MATH 115; Comfort with Probability/Statistics; and Proficiency with Programming (e.g., CMPLXSYS 270 or MATH 463/BIOPHYS 463 or CMPLXSYS 391 or CMPLXSYS 530, etc.). (3). May not be repeated for credit.

CMPLXSYS 435 / EEB 435. Ecological Networks

Quantitative skills and a general knowledge of biology recommended. (3). May not be repeated for credit.

CMPLXSYS 445 / BIOPHYS 445 / PHYSICS 445. Introduction to Information Theory for the Natural Sciences

MATH 215 (Multivariable and Vector Calculus). (Prerequisites enforced at registration.) MATH 425/STATS 425. (3). 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 501. An Introduction to Complex Systems

Junior, Senior, or Graduate standing. (3). (BS). May not be repeated for credit.

CMPLXSYS 510 / MATH 550. Introduction to Adaptive Systems

MATH 215, 255, or 285; MATH 217; and MATH 425. (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 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). (R&E). 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 220 / FTVM 202. Introduction to Digital Media Studies

(4). (HU). May not be repeated for credit. AMCULT 202, ENGLISH 280.

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 259. Social Sciences Themes in Digital Studies

(3 - 4; 3 in the half-term). (SS). 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

(3). (SS). May not be repeated for credit.

DIGITAL 325 / SOC 385. Imagining the Future through Current and Developing Technologies

One introductory course in Sociology. (3 - 4). May not be repeated for credit.

DIGITAL 333 / EDUC 333. Video Games and Learning

(SS). May not be repeated for credit.

DIGITAL 346 / AMCULT 346 / FTVM 346 / GERMAN 346. Media Matter: From Print to Screen Culture

(3). (HU). May not be repeated for credit.

DIGITAL 347 / AMCULT 347. Politics of Code

(3 - 4). (ID). 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.

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 360 / AMCULT 360. Radical Digital Media

Not available to students who have completed AMCULT 358 Topics in Digital Studies when taught with the topic "Radical Digital Media" (topic #1) or AMCULT 405 Topics in American Culture when taught with the topic "Radical Digital Media" (topic #31). (Prerequisites enforced at registration.) (3). (HU). May not be repeated for credit.

DIGITAL 366. Interdisciplinary Themes in Digital Studies

(1 - 4). (ID). May be repeated for a maximum of 9 credits.

DIGITAL 367 / FTVM 367. Digital Media and Identity

(3). (HU). May not be repeated for credit.

DIGITAL 368 / FTVM 368. Topics in Digital Media Studies

FTVM/DIGITAL 367. (3). May be repeated for a maximum of 9 credits. May be elected more than once in the same term.

DIGITAL 376 / FTVM 376. New Media Theory

FTVM 150 or FTVM (SAC) 236. (3). (HU). May not be repeated for credit.

DIGITAL 380 / AMCULT 380 / FTVM 380 / LATINOAM 380. Studies in Transnational Media

Prior coursework in Film Television, and Media, Communications (TV), or Latino Studies. Knowledge of Spanish is not required. (3). 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 396. Internship in Digital Studies

(ID). (EXPERIENTIAL). May not be repeated for credit.

DIGITAL 410 / AMCULT 410 / SI 410. Ethics and Information Technology

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 or GEOSCI 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.

EARTH 111. Formation of a Habitable Planet

No prior scientific knowledge is required. (1). (NS). (BS). May not be repeated for credit.

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 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 Geology 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 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 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 141. Earth Science in Feature Films First Year Seminar

No prior scientific knowledge is required. (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 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 201/GEOG 201/ENVIRON 209, EARTH/ENVIRON 202, or 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 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 or equivalent. (Prerequisites enforced at registration.) Introductory algebra-based physics. (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 GEOSCI 111 or 144 or EARTH 111 or 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). (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). (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 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 417. Geology of the Great Lakes
An introductory course in Geology (EARTH 116, 119, 120 or 205/206/118), BIOLOGY 171 or 172, or Oceanography (EARTH 222/223), OR permission of instructor. (2). (BS). 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, 412] and [EARTH 131 or CHEM 125/126/130]. (3). (BS). May not be repeated for credit. W.

EARTH 431 / ENVIRON 431. Terrestrial Biomes Past, Present and Future
BIOLOGY 171, or one of EARTH (GEOSCI) 116, 119, 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 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 435. Field Studies in Mineralogy, Petrology, and Geochemistry
Permission of instructor. (1 - 4). (BS). May be repeated for credit.

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 441. Field Geology Project

Consent of department required. Completion of EARTH (GEOSCI) 440 immediately prior. (1). (BS). May not be repeated for credit. 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 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 454 / CLIMATE 440. Meteorological Analysis Laboratory

CLIMATE 350, SPACE 350, CLIMATE 401. (4). May not be repeated for credit.

EARTH 455. Determinative Methods in Mineralogical and Inorganic Materials

One term of Chemistry and Physics. (4). (BS). May not be repeated for credit. W.

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 477 / ENVIRON 479. Hydrogeology

MATH 116; and High school knowledge of PHYSICS, CHEMISTRY, and EARTH (GEOSCI) or equivalent. (4). (BS). 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 and EARTH 314. Basic knowledge of function-oriented programming (i.e., Matlab or Python). This includes being able to open and read data files and know basic loop functions. (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 Stratigraphy, Paleontology, or Sedimentology

Permission of instructor. (1 - 2). (BS). May be repeated for credit. 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 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.

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 335. Biodiversity Research Seminar

BIOLOGY 171 and 172 (or 174); or BIOLOGY 192 and 173; or BIOLOGY 195 and 173. (Prerequisites enforced at registration.) Recommended grade of at least B in BIOLOGY introductory courses. (2). (BS). May not be repeated for credit. F and W.

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 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). (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). (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.

EEB 392. Evolution (UMBS)
BIOLOGY 171 or (195 & 173); prior or concurrent enrollment in BIOLOGY 305. (3 in the half-term). (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 6 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 414. Molecular Approaches in Ecology and Evolutionary Biology
BIOLOGY 171, and 172 or 174; OR BIOLOGY 192; OR, BIOLOGY 195; OR Graduate Student Standing. (Prerequisites enforced at registration.) EEB 390 (Evolution) and BIOLOGY 305 (Genetics). (2 in the half-term). (BS). 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 435 / CMLXSYS 435. Ecological Networks
Quantitative skills and a general knowledge of biology recommended. (3). May not be repeated for credit.

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 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 I Specified Elective.

EEB 447. Microbes in the Wild: Environmental Microbiology Laboratory
BIOLOGY 207. (Prerequisites enforced at registration.) (3). (BS). May not be repeated for credit. Rackham credit requires additional work.

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 / CMLXSYS 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 472. Plant-Animal Interactions

BIOLOGY 281. (3). (BS). May not be repeated for credit. W.

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 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 485. Population and Community Ecology

(4). (BS). May not be repeated for credit. Rackham credit requires additional work.

EEB 486. Biology and Ecology of Fish (UMBS)

Two laboratory courses in BIOLOGY. (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 491. Phylogenetic Methods and Theory

BIOLOGY 171, 172 or 174, & 173; or BIOLOGY 192 & 173; or BIOLOGY 195 & 173. (4). (BS). May not be repeated for credit.

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.

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 195. Seminar in Introductory Economics

(3). (SS). May not be repeated for 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 251. Introduction to Statistics and Econometrics II

With a minimum grade of C, MATH 115, 116, 121, 156, 185, 186, 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 327. Economics of Crime

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). (4). May not be repeated for credit.

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 360. The Developing Economies

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 6 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

MATH 115, 116, 121, 156, 176, 185, 186, 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

MATH 115, 116, 121, 156, 176, 185, 186, 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. (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 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 422. Personnel 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 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 429. Migration Economics and Policy

ECON 401 (completed with a minimum grade of C- or better); OR Graduate standing. (Prerequisites enforced at registration.) STATS 250 or ECON 451. (3 - 4). 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 438. Economics of Health Services

ECON 401 with a grade of at least C- or graduate standing. (Prerequisites enforced at registration.) (3). May not be repeated for credit.

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/1). 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. The Economics of Development I

ECON 401 with a grade of at least C-; or Graduate standing. (Prerequisites enforced at registration.) (4; 3 in the half-term). 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 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 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 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 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 / THREMUS 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 234 / JUDAIC 234. Jewish Storytelling

(3). (HU). May not be repeated for credit.

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 / THREMUS 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 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). (R&E). 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). (R&E). May not be repeated for credit.

ENGLISH 285. Introduction to Twentieth-Century Literature
(3). (HU). May not be repeated for credit.

ENGLISH 287 / AMCULT 287 / LATINOAM 287. Introduction to Latinx Literatures
(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 298. Introduction to Literary Studies
(3). (HU). May not be repeated for credit. Prerequisite for the English major and English Honors Plan.

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 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; submission of portfolio and application required. (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; submission of portfolio and application required. (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 / THTREMUS 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 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
(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 335. Autobiography
 (3 - 4; 2 - 3 in the half-term). (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 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 / THREMU 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 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
Consent of instructor required. (3). May be repeated for a maximum of 6 credits.

ENGLISH 424. Advanced Poetry Writing
Consent of instructor required. (3). May be repeated for credit.

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 / THTREMUS 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 442. Studies in Poetry
(3). May not be repeated for credit.

ENGLISH 443 / THTREMUS 321. History of Theatre I
(3). May not be repeated for credit.

ENGLISH 444 / THTREMUS 322. History of Theatre II
(3). May not be repeated for credit.

ENGLISH 447. Modern Drama
(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 461. English Romantic Literature
(3). May not be repeated for credit.

ENGLISH 463. Modern Anglophone Literature
(3). May not be repeated for credit.

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 469. Milton
(3). May not be repeated for credit.

ENGLISH 470. Colonial and Revolutionary American Literature
(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 490. History of Literary Criticism and Theory

(3). May not be repeated for credit.

ENGLISH 492. Special Topics in Language and Literature

(1 - 2; 1 in the half-term). May be elected twice for credit. May be elected more than once in the same term.

ENGLISH 495. Honors Colloquium: 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. Honors Colloquium: Completing the Thesis

Consent of instructor required. ENGLISH 492, admission to the English Honors Program, and permission of instructor. (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.

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 192. Topics in English for Academic Purposes

(1 - 3). May be repeated for a maximum of 4 credits. 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 237. Pronunciation II

(1). May not be repeated for credit. Offered mandatory credit/no credit.

ELI 292. Topics in English for Academic Purposes

(1 - 3). May be repeated for a maximum of 4 credits. A maximum of four ELI credits may be counted toward a degree. Offered mandatory credit/no credit.

ELI 351 / LING 351 / PSYCH 344. Second Language Acquisition

LING 111 or 210. (3). (BS). May not be repeated for credit.

ELI 390 / EDUC 390 / LING 390 / RCSSCI 390. Community-Engaged Learning in ESL Teaching Contexts

(3). (EXPERIENTIAL). May be elected three times for credit.

ELI 391. English as a Second Language Topics

(3). May be elected twice 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 395 / AMCULT 361 / EDUC 395 / LATINOAM 361 / LING 391 / RCSSCI 395. Principles and Practices of Teaching ESL in Migrant Communities

(3). (R&E). (EXPERIENTIAL). May be elected three times for credit.

ELI 396 / AMCULT 362 / EDUC 396 / LATINOAM 362 / LING 396 / RCSSCI 396. Migrant Community Outreach and ESL Teaching Practicum

ELI 395; completed with a minimum grade of C or better. (Prerequisites enforced at registration.) (2 - 3). (EXPERIENTIAL). May be elected three times 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 202 / DIGITAL 220. Introduction to Digital Media Studies

(4). (HU). May not be repeated for credit. *AMCULT 202, ENGLISH 280.*

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 232 / AAS 232. Survey of African American Cinema

(3). (HU). May not be repeated for credit.

FTVM 233 / ASIAN 203. Haunted by History: Asian Horror Cinema

(4). (HU). 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 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 325. New Line and New Hollywood Cinema

(3). May not be repeated for credit.

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 346 / AMCULT 346 / DIGITAL 346 / GERMAN 346. Media Matter: From Print to Screen Culture
(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 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 367 / DIGITAL 367. Digital Media and Identity
(3). (HU). May not be repeated for credit.

FTVM 368 / DIGITAL 368. Topics in Digital Media Studies
FTVM/DIGITAL 367. (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 380 / AMCULT 380 / DIGITAL 380 / LATINOAM 380. Studies in Transnational Media
Prior coursework in Film Television, and Media, Communications (TV), or Latino Studies. Knowledge of Spanish is not required. (3). May not be repeated for credit.

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 392. Cinematography
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 393. Screenance
FTVM Majors. (Prerequisites enforced at registration.) A 300 (or 400) level production course in the relevant emphasized area: FTVM 300 or 301 and permission of instructor. (4). 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 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 458 / ASIAN 458. Film Culture in Korea

(3). May not be repeated for credit.

FTVM 460. Technology and the Moving Image

FTVM 150 or FTVM (SAC) 236. (Prerequisites enforced at registration.) (3). May not be repeated for credit.

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 485. The Global Screen

Junior or Above. (Prerequisites enforced at registration.) Junior standing; 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 489. Senior Screenwriting Tutorial

FTVM 410, FTVM majors only. (Prerequisites enforced at registration.) (3). (INDEPENDENT). May not be repeated for 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 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 301. Pronunciation and Conversation

Previous or concurrent enrollment in GERMAN 221, 230, 231, 232, or RCLANG 291. (1). May be repeated for a maximum of 2 credits.

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 305. Studies in German Society and Politics

(1 in the half-term). (SS). May be elected three times for credit. 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. The Origins of Nazism

(4). (HU). (R&E). May not be repeated for credit. Taught in English.

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 336. Performing German

GERMAN 230 or 232 or RCLANG 291 or the equivalent as per placement test results. (3). (CE). May be repeated for a maximum of 12 credits. May be elected more than once in the same term. Taught in German.

GERMAN 342. Other Victims of the Holocaust

GERMAN 230 or 232 or RCLANG 291 or the equivalent as per placement test results. (HU). May not be repeated for credit.

GERMAN 346 / AMCULT 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. Practice in Business German

Internship in a German-speaking country. (1 - 3). (EXPERIENTIAL). May not be repeated for credit.

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 365. What is Time?

No credit granted to those who have completed GERMAN 416, Topic #24 "What is Time?". (Prerequisites enforced at registration.) GERMAN 230, 232, or RCLANG 291. (3). (HU). 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 379 / 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. Taught in English.

GERMAN 386. Fairy Tales

(3). (HU). May not be repeated for credit.

GERMAN 387. Faust Uncensored

(3; 2 in the half-term). (HU). May not be repeated for credit.

GERMAN 389. Anti-Semitism in German Literatures 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 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. Twentieth Century German Fiction

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. Un/Translatability in Theory and Practice

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 517 / ANTHROCUL 519 / LING 517. Principles and Methods of Historical Linguistics

Graduate standing, or permission of instructor. (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 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 Study Abroad (STDABRD)

STDABRD 201. CGIS: First Year Writing Requirement in Dublin, Ireland

(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 202. CGIS: French 232 and Intercultural Learning Topic

(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: International Business and Economics 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 - 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 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 257. CGIS: University Study in China - Fudan University (Shanghai)

(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 271. CGIS: Honors First Semester Abroad in Copenhagen, Denmark or Stockholm, Sweden

(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 272. CGIS: Honors First Semester Abroad 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 275. CGIS: Global Intercultural Experience for Undergraduates (GIEU)

(2). May not be repeated for credit. Multiple Grading Patterns.

STDABRD 284. CGIS: Arts, Culture and French 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 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 286. CGIS: Black Paris 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: Intensive 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 309. CGIS: Frontiers Abroad - Geology and Earth Systems Science in Auckland and Christchurch, 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 - 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 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 334. CGIS: Summer Business, Liberal Arts and Social Sciences in Prague, Czech Republic

(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 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 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 346. CGIS: Advanced Russian Language and Culture in Russia
Minimum 4 semesters of college Russian, with average of B or better in language courses. (1 - 15). May be repeated for a maximum of 60 credits. May be elected more than once in the same term. (Russia) 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 350. CGIS: European Union Summer Program in Freiburg, Germany
(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 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 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: Sustainable Development Studies 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 383. CGIS: Language and Culture 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 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 386. CGIS: Food Security and Nutrition in Montespertoli, 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: Social Sciences 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 - 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 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 Brazil, India, 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 - 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 444. CGIS: STEM Summer Research Program in Aberdeen, 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 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 Summer School
(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
(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 491. CGIS: Social Justice and Entrepreneurship at the University of 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 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 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. Death, Immortality, and Afterlife

(3). (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 215. The History of Disaster

(4; 3 in the half-term). (HU). May not be repeated for credit.

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 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 233 / STS 233. History of Sexually Transmitted Diseases from Syphilis to AIDS

(4; 3 in the half-term). (ID). May not be repeated 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 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. 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. 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 250. China from the Oracle Bones to the Opium War
(3). (HU). May not be repeated for credit. F.
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 257 / CLCIV 257 / JUDAIC 257. Ancient Law
(4; 3 in the half-term). (HU). May not be repeated for credit.
HISTORY 258 / JUDAIC 210. Sources of Jewish History
(3). (HU). May not be repeated for credit.
HISTORY 259 / JUDAIC 339 / MIDEAST 339 / RELIGION 358. Israel Before the Exile (587 BCE): Its History & Religion
(4; 3 in the half-term). (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 262 / AMCULT 263. The American South
(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 269 / JUDAIC 260 / RELIGION 260. Introduction to the Talmud and the Rabbis
(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 284 / AMCULT 284. Sickness and Health in Society: 1492 to the Present
First-year students must obtain permission of the instructor. (3 - 4; 3 in the half-term). (SS). May not be repeated for credit. Those who miss the first meeting without advance permission will be dropped from the course.
HISTORY 285 / RCSSCI 275 / STS 285. Science, Technology, Medicine, and Society
(4). (SS). May not be repeated for credit.
HISTORY 287. A History of the Spanish and Portuguese Early Modern World
(4; 3 in the half-term). (HU). 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. Explorations in History

(1 - 3). May be elected four times for credit. May be elected more than once in the same term.

HISTORY 303 / CLCIV 303 / WGS 303. Women in the Ancient Mediterranean

(3). (HU). May not be repeated for credit.

HISTORY 304. Interdisciplinary Topics in History

(3 - 4; 3 in the half-term). (ID). May be elected five times for credit. May be elected more than once in the same term.

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 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 310 / AAS 310 / INTLSTD 310. Atlantic Slavery and the Making of the Modern World

(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 313 / FRENCH 344. The Revolutionary Century: France, 1789-1900

(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 316 / MEMS 316 / WGS 316. Women and Gender in Medieval Europe: 500-1500

One course in Women's & Gender Studies or History. (3). (SS). 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 319. Europe Since 1945

(4; 3 in the half-term). (SS). May not be repeated for credit.

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. The Origins of Nazism

(4). (HU). (R&E). May not be repeated for credit. Taught in English.

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). 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 334 / AMCULT 306 / ASIAN 391. Milk

(3). (HU). May not be repeated for credit.

HISTORY 335 / AMCULT 385 / ISLAM 335 / LATINOAM 385. Immigration Law: Critical Approaches to Contemporary Issues

(3 - 4; 3 in the half-term). (SS). 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 343 / AMCULT 341. Rise of the Corporation

(3). (SS). May not be repeated for credit.

HISTORY 345 / RCSSCI 357. History and Theory of Punishment

(4). 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

(4). (SS). May not be repeated for credit.

HISTORY 348 / INTLSTD 348. Latin America: The National Period

(4; 3 in the half-term). (SS). (R&E). May not be repeated for credit.

HISTORY 349 / LACS 349. Revolutionary Movements in Modern Latin America
(4; 3 in the half-term). (ID). May not be repeated for credit.

HISTORY 352. Imperial China: Ideas, Men, and Society
(3). 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. War, Rebellion and Revolution in China Through Two Centuries
(4; 3 in the half-term). (SS). May not be repeated for credit.

HISTORY 357. Topics in African History
(3). May be elected three times for credit.

HISTORY 358. Religion, Magic, and Mystery After Alexander
(4; 3 in the half-term). (HU). May not be repeated for credit.

HISTORY 359. Visions of the Past
(3). May not be repeated for credit.

HISTORY 360. September 11
(3). May not be repeated for credit.

HISTORY 361. U.S. Intellectual History, 1750-1940
(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 368 / AMCULT 342 / WGS 360. History of the Family in the U.S.
(4; 3 in the half-term). (ID). (R&E). May not be repeated for credit.

HISTORY 370 / AMCULT 375 / WGS 370. Queer Histories of the United States, 1850 to the Present
(4; 3 in the half-term). (SS). May not be repeated for credit.

HISTORY 371 / AMCULT 371 / WGS 371. Sex and Gender in U.S. History, 1600-2015
Students will not receive credit for this course if they've taken HISTORY 328 with the title "Sex and Gender in U.S. History, 1600-2000" (topic ID #48). (Prerequisites enforced at registration.) (3 - 4). (HU). (R&E). May not be repeated for credit. W.

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. 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 378 / AMCULT 314 / ASIANPAM 314. History of Asian Americans in the U.S.
(4; 3 in the half-term). (SS). May not be repeated for credit.

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 391. Topics in European History
(3). May be repeated for a maximum of 6 credits.

HISTORY 392. Topics in Asian History
(3). May be elected twice for credit.

HISTORY 393. Topics in U.S. History
(3). May be repeated for a maximum of 6 credits.

HISTORY 394 / ISLAM 394 / MIDEAST 376. 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 400. Topics in Late Antiquity
(3). May be elected four times for credit. May be elected more than once in the same term. Rackham credit requires additional work.
HISTORY 402. Problems in Roman History
(3). 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 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 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 422 / ASIAN 400 / RELIGION 400. India and the West
Junior and above. (3). May not be repeated for credit. Rackham credit requires additional work.
HISTORY 424 / ASIAN 424. Topics in Modern South Asian 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. Rackham credit requires additional work.
HISTORY 426 / AMCULT 426. Skin/Masks: Violence and (De)Colonization
(3). May not be repeated for credit.
HISTORY 427 / ISLAM 422 / MIDEAST 422 / RELIGION 467. The History of Shi'ism: Drama, Ritual, and Memory
Junior standing or permission of instructor. (3). May not be repeated for credit.
HISTORY 429 / ISLAM 432 / MIDEAST 432 / RELIGION 496 / WGS 471. Gender and Sexuality in Pre-Modern Islam
Students should preferably have had one course in Islamic Studies. (3). May not be repeated for credit.
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 Triumvirate 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. Women, 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 not be repeated for credit.
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 446. Social and Intellectual History of Modern China
(3). May not be repeated 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 454 / AMCULT 353 / ASIANPAM 353. Asians in American Film and Television
(4; 3 in the half-term). (ID). (R&E). May not be repeated for credit.
HISTORY 460. Colonial America
(3). May not be repeated 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 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 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 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.

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 240 / HISTART 240. The Visual Arts in Medieval Society

(3). (HU). May not be repeated for credit.

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 316 / HISTORY 316 / WGS 316. Women and Gender in Medieval Europe: 500-1500

One course in Women's & Gender Studies or History. (3). (SS). 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 344 / HISTART 344. Early Medieval Kingdoms and Cultures: European Art 400-1000

(3). (HU). May not be repeated for credit.

MEMS 345 / HISTART 345. Introduction to Medieval Architecture

(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). (HU). May not be repeated for credit.

MEMS 441 / LATIN 436. Postclassical Latin II

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 215 / ARCH 215. Architecture in Capitalism: Corporations and the Built Environment from McDonald's to the Medici

(4). (HU). May not be repeated for credit.

HISTART 216 / ARCH 216 / WGS 215. Contested Spaces: Art, Architecture, Politics

(4). (HU). (R&E). May not be repeated for credit.

HISTART 220 / CLARCH 220. Great Buildings of Ancient Greece and Rome

(4; 3 in the half-term). (HU). May not be repeated for credit.

HISTART 221 / CLARCH 221. Introduction to Greek Archaeology

(4; 3 in the half-term). (HU). May not be repeated for credit.

HISTART 222 / CLARCH 222. Introduction to Roman Archaeology

(4; 3 in the half-term). (HU). May not be repeated for credit.

HISTART 224 / AAS 224. African Visual Cultures: Akan/Kongo/Yoruba

(3). May not be repeated for credit.

HISTART 228. Visual Cultures of Ancient Rome

(3). 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 240 / MEMS 240. The Visual Arts in Medieval Society

(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 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 342 / RCHUMS 344. Reason and Passion in the 18th Century Europe

Sophomore standing. (3). (HU). May not be repeated for credit.

HISTART 343. God, Love, and War: The Art of Byzantium and Medieval Western Europe

(3). (HU). May not be repeated for credit.

HISTART 344 / MEMS 344. Early Medieval Kingdoms and Cultures: European Art 400-1000

(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 346 / RELIGION 346. The Moving Image in the Middle Ages

(3). (HU). May not be repeated for credit.

HISTART 347. Medieval Sports and Art
(3). (HU). May not be repeated for credit.

HISTART 349 / MUSEUMS 349. Chambers of Wonder: The Origins of Museums of Art and Natural History
(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 352 / RCHUMS 346. Art and Philosophy in the Renaissance Tradition
(3). (HU). 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 358. The Destruction of Art
(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). May not be repeated for credit.

HISTART 373. Global Politics and Contemporary Art
(3). (HU). 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 380 / CLARCH 380. Minoan and Mycenaean Archaeology
Consent of instructor required. Upperclass standing, CLARCH/HISTART 221 and 222, and permission of instructor. (3). May not be repeated for credit.

HISTART 382 / ANTHRARC 381 / MIDEAST 338. Introduction to Egyptian Archaeology
(4; 3 in the half-term). (HU). May not be repeated for credit.

HISTART 383. Modern Art in a Multi-Ethnic Asia
At least one course in either History of Art or Asian Studies. (4). (HU). (R&E). May not be repeated for credit.

HISTART 387 / CLARCH 387. Archaeology of Ancient Housing
(3). May not be repeated for credit.

HISTART 389 / CLARCH 389 / CLCIV 379. Pompeii
(3 - 4). (HU). May not be repeated for credit.

HISTART 392. 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 396. Good Stories: Japanese Visual Narratives
(3). (HU). May not be repeated for credit.

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 406 / AAS 407. Looking at African Things
HISTART 208/AAS 208. (3). May not be repeated for credit. Rackham credit requires additional work.

HISTART 408 / AAS 480. The Future of Africa's past: Material Culture, History, and Heritage
AAS 200 (CAAS 200). (3). May not be repeated for credit.

HISTART 424 / CLARCH 424. Archaeology of the Roman Provinces
Upperclass standing, and CLARCH/HISTART 221 or 222. (3). May not be repeated for credit.

HISTART 430 / CLARCH 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 433 / CLARCH 433. Greek Sculpture
Upperclass standing, some preparation in Classical Civilization, Classical Archaeology or History of Art. (3; 2 in the half-term). May not be repeated for credit. Rackham credit requires additional work.

HISTART 435 / CLARCH 435. The Art and Archaeology of Asia Minor
Upperclass standing. (3). May not be repeated for credit.

HISTART 440 / CLARCH 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 / CLARCH 443. The Art and Archaeology of Greek Colonization

Upperclass standing and CLARCH/HISTART 221. (3). May not be repeated for credit.

HISTART 450. Avant-Garde Legacies

(3). May not be repeated for credit. Rackham credit requires additional work.

HISTART 466 / ASIAN 465. Sacred Image/Sacred Place in Japanese Art

(3). May not be repeated for credit. Rackham credit requires additional work.

HISTART 476 / ARCH 467. Urban Fragments: The Americas

(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 492 / ISLAM 492. Modern Islamic Art and Visual Culture

(3). May not be repeated for credit. Rackham credit requires additional work.

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 536 / CLARCH 536. Hellenistic and Roman Sculpture

HISTART 101; one of CLARCH 221 or 222 or HISTART 221 or 222; and Upperclass standing. (3). May not be repeated for credit. Rackham credit requires additional work.

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 349 / HISTART 349. Chambers of Wonder: The Origins of Museums of Art and Natural History

(3). (HU). May not be repeated for credit.

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 170. Navigating Honors: Honors First-year Experience

(1). May not be repeated for credit. No credit granted to those who have completed or enrolled in ALA 171. Offered mandatory credit/no credit.

HONORS 222. Honors Core Quantitative (QR/2) NS

Consent of department required. (4). (NS). (BS). (QR/2). 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 232. Honors Core in Natural Science

Consent of department required. (4). (NS). (BS). May be elected twice for credit. May be elected more than once in the same term.

HONORS 233. Honors Core in Interdisciplinary Studies

Consent of department required. (4). (ID). May be elected twice for credit.

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 250. Honors Social Sciences Seminar

Open to all Honors students. (3). (SS). 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 354 / AAS 354 / RCHUMS 354 / WGS 354. Race and Identity in Music

(3). (HU). (R&E). May not be repeated for credit.

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 292. 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 315 / MIDEAST 315. Introduction to Arab Culture

(4). (HU). (R&E). May not be repeated for credit.

ISLAM 317 / MIDEAST 317. Turkey in the 20th century: Modernity and the Politics of Culture

(3). (ID). 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 328 / MIDEAST 328. Peace and Nonviolence in Islamic Cultures

MIDEAST 200. (3). (HU). May not be repeated for credit.

ISLAM 330 / MIDEAST 330 / RCHUMS 330 / RELIGION 330. The Arabian Nights

(3). (HU). May not be repeated for credit.

ISLAM 335 / AMCULT 385 / HISTORY 335 / LATINOAM 385. Immigration Law: Critical Approaches to Contemporary Issues

(3 - 4; 3 in the half-term). (SS). 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 376. History of the Turkish Republic

(3). (HU). May not be repeated for credit.

ISLAM 411 / MIDEAST 411 / REEES 411. Islamic Movements in Comparative Perspective

Introductory course on Islam (i.e. NEAREAST 216). (3). May not be repeated for credit.

ISLAM 417 / HISTORY 442 / MIDEAST 417. The First Millennium of the Islamic Near East

Junior standing. (3). May not be repeated for 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 422 / HISTORY 427 / MIDEAST 422 / RELIGION 467. The History of Shi'ism: Drama, Ritual, and Memory

Junior standing or permission of instructor. (3). May not be repeated for credit.

ISLAM 424 / MIDEAST 424 / RELIGION 461. Islamic Intellectual History

Taught in English. (3). May not be repeated for credit.

ISLAM 430 / MIDEAST 430. History of Arabic Literature in English

(3). May not be repeated for credit.

ISLAM 432 / HISTORY 429 / MIDEAST 432 / RELIGION 496 / WGS 471. Gender and Sexuality in Pre-Modern Islam

Students should preferably have had one course in Islamic Studies. (3). May not be repeated for credit.

ISLAM 433 / MIDEAST 433 / WGS 496. Gender and Representation in the Modern Middle East

(3). May not be repeated for credit.

ISLAM 434 / MEMS 434 / MIDEAST 434. Shahnameh: Iranian Myth, Epic, and History

(3). (HU). May not be repeated for credit.

ISLAM 443 / HISTORY 443 / MIDEAST 487. Modern Middle East History

(4). May not be repeated for credit.

ISLAM 490. Advanced Topics in Islam

(1 - 4). May be elected three times for credit. May be elected more than once in the same term.

ISLAM 492 / HISTART 492. Modern Islamic Art and Visual Culture

(3). May not be repeated for credit. Rackham credit requires additional work.

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. Death, Immortality, and Afterlife

(3). (ID). 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 308 / MENAS 308 / MIDEAST 308. Conflict and Comics: Reframing the Middle East

(3). (HU). May not be repeated for credit.

INTLSTD 310 / AAS 310 / HISTORY 310. Atlantic Slavery and the Making of the Modern World

(3). (HU). (R&E). May not be repeated for credit.

INTLSTD 348 / HISTORY 348. Latin America: The National Period

(4; 3 in the half-term). (SS). (R&E). 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 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 389. Topics in Comparative Culture and Identity

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 twice for credit.

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 489. Advanced topics in Comparative Culture and Identity

INTLSTD 101. (Prerequisites enforced at registration.) INTLSTD 301. (3 - 4). May be elected twice for 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 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: Latin American and Caribbean Studies

Courses In Latin American and Caribbean Studies (LACS)

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 349 / HISTORY 349. Revolutionary Movements in Modern Latin America

(4; 3 in the half-term). (ID). May not be repeated for credit.

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 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 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 332. MENAS Topics in the Humanities

(3 - 4). (HU). May be elected five times for credit. May be elected more than once in the same term.

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 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 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.

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 230. REES Topics in the Humanities

(3 - 4). (HU). May be elected five times for credit. May be elected more than once in the same term.

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 350 / BCS 350 / JUDAIC 350. Legacy of the Holocaust in Yugoslav Culture: How and Why We Need to Narrate the Holocaust
(3). (HU). 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 396 / POLSCI 396 / SLAVIC 396 / SOC 393. East Central Europe: Nationalism, Socialism, Democracy

(3 - 4). (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 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 411 / ISLAM 411 / MIDEAST 411. Islamic Movements in Comparative Perspective

Introductory course on Islam (i.e. NEAREAST 216). (3). May not be repeated for credit.

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 220 / NURS 220 / WGS 220. Perspectives in Women's Health

(3). (SS). (R&E). May not be repeated for credit.

STS 233 / HISTORY 233. History of Sexually Transmitted Diseases from Syphilis to AIDS

(4; 3 in the half-term). (ID). 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 249 / ANTHRCUL 249. Sound, Music, and Noise

(4). (SS). 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 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 / RCSSCI 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 327 / ANTHRCUL 327 / RCSSCI 327 / WGS 307. Critical Theory in Medicine and Healing

One course in ANTHRCUL or RCSSCI or WGS/AMCULT 240 (WOMENSTD/AMCULT 240) or WGS (WOMENSTD) with an SS designation. (4). (SS). May not be repeated for credit.

STS 341 / ANTHRCUL 341. The Globalization of Biomedicine

(4). (SS). 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 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 499. 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. Rackham credit requires additional work.

LSA II: SE Asian Studies

Courses In Southeast Asian Studies (SEAS)

SEAS 211 / ASIAN 211 / RELIGION 212. Monks, Magic and Mediums: Buddhism in Southeast Asia

(3). (HU). May not be repeated for credit.

SEAS 347 / ASIAN 347. Thailand: Culture, Society, and Politics

(3). (ID). May not be repeated for credit.

SEAS 354 / POLSCI 354. Governments and Politics of Southeast Asia

One course in Political Science or upperclass standing. (3). (SS). May not be repeated for credit.

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 121 / MELANG 102 / RELIGION 111. Elementary Classical Hebrew II

MELANG 101 (NESLANG 101). (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 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 220 / MELANG 201 / RELIGION 210. Intermediate Classical Hebrew I

MELANG 102 (NESLANG 102). (3). May not be repeated for credit.

JUDAIC 221 / MELANG 202 / RELIGION 211. Intermediate Classical Hebrew II

MELANG 201 (NESLANG 201). (3). (Lang Req). May not be repeated for credit.

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 234 / ENGLISH 234. Jewish Storytelling

(3). (HU). May not be repeated for credit.

JUDAIC 235 / MIDEAST 235 / RELIGION 235. Introduction to the Tanakh/Old Testament

(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 257 / CLCIV 257 / HISTORY 257. Ancient Law

(4; 3 in the half-term). (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 259. The Book of Genesis
(3). (HU). May not be repeated for credit.

JUDAIC 260 / HISTORY 269 / RELIGION 260. Introduction to the Talmud and the Rabbis
(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 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 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 335 / MIDEAST 335 / RELIGION 359. History and Religion of Second Temple Judaism
(3). (HU). May be elected three times for credit.

JUDAIC 339 / HISTORY 259 / MIDEAST 339 / RELIGION 358. Israel Before the Exile (587 BCE): Its History & Religion
(4; 3 in the half-term). (HU). May not be repeated for credit.

JUDAIC 340. Jewish Life in Colonial North Africa
(3). (HU). May not be repeated for credit.

JUDAIC 350 / BCS 350 / REEES 350. Legacy of the Holocaust in Yugoslav Culture: How and Why We Need to Narrate the Holocaust
(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 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 375 / MIDEAST 343. Archaeology and the Bible
(3). (ID). May not be repeated for credit.

JUDAIC 376 / WGS 376. Women and the Bible
(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 405 / HEBREW 405. The Holocaust in Israeli Culture
HEBREW 301, or third-year proficiency in Hebrew. (3). 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 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 301. Special Topics for Cognitive Science

Consent of department required. (3). May be elected twice for credit.

COGSCI 302 / PHIL 302. Topics in Moral Psychology

No credit granted to those who have completed or are enrolled in COGSCI 301, section titled Topics in Moral Psychology. (Prerequisites enforced at registration.) COGSCI 200 or Introductory course in Psychology or Philosophy. (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 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 - 3). (INDEPENDENT). May be repeated for a maximum of 3 credits.

COGSCI 498. Independent Study for Cognitive Science

Consent of department required. (1 - 3). (INDEPENDENT). May be repeated for a maximum of 3 credits.

COGSCI 499. Senior Honors Research for Cognitive Science

Consent of department required. Acceptance into the Cognitive Science Honors Program. (3). (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 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 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 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, 210, or 212. (3). 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 342. Perspectives on Bilingualism

LING 111, 210, or 272. (3). May not be repeated for credit.

LING 344. Cognitive Linguistics

(3). 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 351 / ELI 351 / PSYCH 344. Second Language Acquisition

LING 111 or 210. (3). (BS). May not be repeated for credit.

LING 352 / PSYCH 352. Development of Language and Thought

PSYCH 250. (3). (SS). May not be repeated for credit.

LING 367 / ASIAN 367. Languages of Asia

(3). (HU). May not be repeated for credit.

LING 368 / ASIAN 368. How Different is Chinese?

(3). (HU). 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 385. Experiential Practice

Permission of instructor. (1 - 6). (EXPERIENTIAL). May be repeated for a maximum of 6 credits. Offered mandatory credit/no credit.

LING 390 / EDUC 390 / ELI 390 / RCSSCI 390. Community-Engaged Learning in ESL Teaching Contexts

(3). (EXPERIENTIAL). May be elected three times for credit.

LING 391 / AMCULT 361 / EDUC 395 / ELI 395 / LATINOAM 361 / RCSSCI 395. Principles and Practices of Teaching ESL in Migrant Communities

(3). (R&E). (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 396 / AMCULT 362 / EDUC 396 / ELI 396 / LATINOAM 362 / RCSSCI 396. Migrant Community Outreach and ESL Teaching Practicum

ELI 395; completed with a minimum grade of C or better. (Prerequisites enforced at registration.) (2 - 3). (EXPERIENTIAL). May be elected three times for credit.

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 412. Speech Perception

LING 313. (Prerequisites enforced at registration.) (3). (BS). 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 423. African Linguistics

Two previous 300-level courses in Linguistics. (3). May not be repeated for credit.

LING 426 / PHIL 426. Philosophy and Linguistic Theory

One philosophy introduction, one logic introduction, one concentration in Linguistics. (3; 2 in the half-term). 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. Language Learnability

LING 315. (Prerequisites enforced at registration.) (3). May not be repeated for credit.

LING 441. Introduction to Computational Linguistics

One of: 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 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 449 / AAS 439. Creole Languages and Caribbean Identities

AAS 202. (3; 2 in the half-term). May not be repeated for credit.

LING 461 / AMCULT 461 / ANTHRCUL 461 / NATIVEAM 461. Language, Culture, and Society in Native North America

(3). 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 517 / ANTHRCUL 519 / GERMAN 517. Principles and Methods of Historical Linguistics

Graduate standing, or permission of instructor. (3; 2 in the half-term). May not be repeated for credit.

LING 519. Discourse Analysis

Permission of instructor. (3; 2 in the half-term). May not be repeated for credit.

LING 522. Language Contact

At least one introductory course in Linguistics. (3). May not be repeated for credit.

LING 541 / EECS 595 / SI 561. Natural Language Processing

Senior standing. (3). (BS). May not be repeated for credit. F.

LING 542 / ANTHRCUL 572. Introduction to Sociolinguistics

One of LING 313, 315, or 316 or graduate standing. (Prerequisites enforced at registration.) (3; 2 in the half-term). May not be repeated for credit.

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 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 106. Introduction to Calculus and Mathematical Modeling

Consent of department required. (3). (MSA). (BS). (QR/1). May not be repeated for credit.

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 117. Topics in Calculus II: Series and Parametric Curves

For students who received a 5 on the 2020 BC Calculus exam. This course covers: polar coordinates and parametric equations; power series including Taylor series; applications thereof. These topics are used throughout the sciences and engineering. (2 - 4). (QR/1). May not be repeated for credit. Offered mandatory credit/no credit.

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 147. Introduction to Interest Theory

Three to four years high school mathematics. (3). (MSA). (BS). May not be repeated for credit. No credit granted to those who have completed a 200- (or higher) level mathematics course, except MATH 385, 485, 489, or 497.

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 175. An Introduction to Cryptology

Permission of department. (4). (MSA). (BS). (QR/1). May not be repeated for credit. No credit granted to those who have completed a 200-level or higher Mathematics course other than 385 or 489. F.

MATH 176. Explorations in Calculus

Background in calculus is suggested, highly recommended for students who have taken Math 175. (4). (MSA). (BS). (QR/1). May not be repeated for credit. Credit is granted for either MATH 176 or 186, not both.

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. Credit is only granted to one course among MATH 205, 215, 255, and 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, 255, or 285.

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 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 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, 255, or 285. 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 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 215 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 385. Mathematics for Elementary School Teachers

One year each of high school algebra and geometry. (3). May not be repeated for credit. No credit granted to those who have completed or are enrolled in MATH 485.

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 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 423. Mathematics of Finance

MATH 217 and 425; EECS 183 or equivalent. (3). (BS). May not be repeated for credit.

MATH 424. Mathematical Interest Theory

MATH 215, 255, or 285 or permission of instructor. (3). (BS). May not be repeated for credit.

MATH 425 / STATS 425. Introduction to Probability

MATH 215. (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 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 215 (or 255 or 285), and 217. (3). (BS). May not be repeated for credit.

MATH 440. Lab of Geometry at Michigan

Consent of instructor required. (3). (BS). May be elected three times for credit.

MATH 450. Advanced Mathematics for Engineers I

Permission required after credit earned in MATH 354 or 454. Consent of department required. (Prerequisites enforced at registration.) MATH 215, 255, or 285. (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. (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 485 / EDUC 485. Mathematics for Elementary School Teachers and Supervisors

One year of high school algebra or permission of the instructor. (3). May not be repeated for credit. No credit granted to those who have completed or are enrolled in MATH 385. May not be included in a concentration plan in Mathematics. F, Su.

MATH 486. Concepts Basic to Secondary Mathematics

One of MATH 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 489. Mathematics for Elementary and Middle School Teachers

MATH 385. (Prerequisites enforced at registration.) (3). May not be repeated for credit. May not be used in any Graduate program in Mathematics.

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 497. Topics in Elementary Mathematics

MATH 489 or permission of instructor. (3). (BS). May be repeated for a maximum of 6 credits. F.

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 511 / CMPLXSYS 511. Theory of Complex Systems

(3). (BS). May not be repeated for credit.

MATH 520. Life Contingencies I

MATH 424 and 425 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. (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

MATH 451 (strongly recommended). MATH 425/STATS 425 would be helpful. (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

MATH, Flexible, due to diverse backgrounds of intended audience. Basic probability (level of MATH/STATS 425), 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 215, 255, or 285; MATH 217; and MATH 425. (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 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. 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 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 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 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 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 301. Advanced Armenian

Completion of ARMENIAN 202, ARMENIAN 206, placement into Advanced Armenian, or permission of instructor. (4). May be elected twice 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 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 203. Intensive Intermediate Modern Hebrew

HEBREW 102 OR 103. (Prerequisites enforced at registration.) (10). (Lang Req). May not be repeated for credit. No credit granted to those who have completed HEBREW 201 (HJCS 201) or HEBREW 202 (HJCS 202).

HEBREW 206. Business in Hebrew

Students who place in HEBREW 202 are eligible to take this course. HEBREW 206 does not meet the LSA Language Requirement. May not be repeated for credit.

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 404. Ethnicity in Israeli Literature and Culture

HEBREW 302 (HJCS 302). (3). May not be repeated for credit.

HEBREW 405 / JUDAIC 405. The Holocaust in Israeli Culture

HEBREW 301, or third-year proficiency in Hebrew. (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 102 / JUDAIC 121 / RELIGION 111. Elementary Classical Hebrew II

MELANG 101 (NESLANG 101). (3). May not be repeated for credit.

MELANG 201 / JUDAIC 220 / RELIGION 210. Intermediate Classical Hebrew I

MELANG 102 (NESLANG 102). (3). May not be repeated for credit.

MELANG 202 / JUDAIC 221 / RELIGION 211. Intermediate Classical Hebrew II

MELANG 201 (NESLANG 201). (3). (Lang Req). May not be repeated for credit.

MELANG 307 / GREEK 307. The Synoptic Gospels: Matthew, Mark and Luke

GREEK 101 and 102; and permission of instructor. (4). 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 420. Introduction to Akkadian

(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 435. Introduction to Sumerian

(3). May not be repeated for credit.

MELANG 440. Coptic I

(3). May not be repeated for credit.

MELANG 441. Coptic II

MELANG 440 (NESLANG 440) or permission of instructor. (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 460. Introduction to Demotic Egyptian

(3). May not be repeated for credit.

MELANG 465. Syriac I

(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 515. Akkadian Documents

MELANG 513 (NESLANG 513). (3). May be elected four times for credit.

MELANG 530. Advanced Middle Egyptian I

MELANG 431 (NESLANG 431). (3). May not be repeated for credit.

MELANG 531. Advanced Middle Egyptian II

MELANG 530 (NESLANG 530). (Prerequisites enforced at registration.) (3). (Lang Req). May not be repeated for credit.

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. Madness, Medicine, and Magic in the Middle East

(4). (HU). May not be repeated for credit.

MIDEAST 202 / RELIGION 201. Introduction to Judaism, Christianity, Islam

(4; 3 in the half-term). (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 204. Islamic Creatures: Animals, Jinn, Monsters, and Angels

(3). (HU). 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 218. Armenia: Culture and Ethnicity
(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 235 / JUDAIC 235 / RELIGION 235. Introduction to the Tanakh/Old Testament
(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 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 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 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 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 315 / ISLAM 315. Introduction to Arab Culture
(4). (HU). (R&E). May not be repeated for credit.

MIDEAST 317 / ISLAM 317. Turkey in the 20th century: Modernity and the Politics of Culture
(3). (ID). 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 325. Introduction to Arab Literature in Translation

(3). (HU). May not be repeated for credit.

MIDEAST 326. The Arab-Israeli Conflict in Middle Eastern Literature and Film
(3). (HU). May not be repeated for credit.

MIDEAST 328 / ISLAM 328. Peace and Nonviolence in Islamic Cultures
MIDEAST 200. (3). (HU). May not be repeated for credit.

MIDEAST 329. Connecting Life Stories, Connecting Lives: The Middle East and Beyond
(3). (HU). May not be repeated for credit.

MIDEAST 330 / ISLAM 330 / RCHUMS 330 / RELIGION 330. The Arabian Nights
(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 335 / JUDAIC 335 / RELIGION 359. History and Religion of Second Temple Judaism
(3). (HU). May be elected three times 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 339 / HISTORY 259 / JUDAIC 339 / RELIGION 358. Israel Before the Exile (587 BCE): Its History & Religion
(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. Science and Technology in the Ancient Middle East
MIDEAST 200: Introduction to the Middle East. (3). (ID). May not be repeated for credit.

MIDEAST 342. Inscribing Power: Language and Writing in the Ancient World
(3). (SS). May not be repeated for credit.

MIDEAST 343 / JUDAIC 375. Archaeology and the Bible
(3). (ID). May not be repeated for credit.

MIDEAST 344. Sex and Gender in the Ancient Middle East
(3). (ID). May not be repeated for credit.

MIDEAST 354 / CLARCH 354 / CLCIV 354 / RELIGION 353. Ancient Jerusalem: Archaeology, Religion, and Culture
(3). (ID). May not be repeated for credit.

MIDEAST 355 / CLARCH 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 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 376 / HISTORY 394 / ISLAM 394. History of the Turkish Republic
(3). (HU). 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 396. Internship in Middle East Studies
Consent of department required. (1). (EXPERIENTIAL). (INDEPENDENT). May be elected twice for credit.

MIDEAST 411 / ISLAM 411 / REEES 411. Islamic Movements in Comparative Perspective
Introductory course on Islam (i.e. NEAREAST 216). (3). May not be repeated for credit.

MIDEAST 417 / HISTORY 442 / ISLAM 417. The First Millennium of the Islamic Near East
Junior standing. (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 422 / HISTORY 427 / ISLAM 422 / RELIGION 467. The History of Shi'ism: Drama, Ritual, and Memory
Junior standing or permission of instructor. (3). May not be repeated for credit.

MIDEAST 424 / ISLAM 424 / RELIGION 461. Islamic Intellectual History
Taught in English. (3). May not be repeated for credit.

MIDEAST 426. An Introduction to Modern Armenian Literature

(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 429. Topics in Modern Arabic Literature in Translation

(3). May be elected three times for credit.

MIDEAST 430 / ISLAM 430. History of Arabic Literature in English

(3). May not be repeated for credit.

MIDEAST 432 / HISTORY 429 / ISLAM 432 / RELIGION 496 / WGS 471. Gender and Sexuality in Pre-Modern Islam

Students should preferably have had one course in Islamic Studies. (3). May not be repeated for credit.

MIDEAST 433 / ISLAM 433 / WGS 496. Gender and Representation in the Modern Middle East

(3). May not be repeated for credit.

MIDEAST 434 / ISLAM 434 / MEMS 434. Shahnameh: Iranian Myth, Epic, and History

(3). (HU). May not be repeated for credit.

MIDEAST 436. Archaeology of Ancient Mesopotamia

Junior standing. (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 440 / AAS 474. The Archaeology of Nubia

MIDEAST 243 (NEAREAST 243) MIDEAST 338 (NEAREAST 338), AAS 200, or ANTHRARC 282. (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 442. Reading the Rabbis

MELANG 202 (NESLANG 202) or HEBREW 202. (4). May not be repeated for credit. No credit granted to those who have completed or are enrolled in MIDEAST 242 (NEAREAST 242/JUDAIC 270).

MIDEAST 445. Selected Topics in Ancient Egyptian History and Culture

(3). May be repeated for a maximum of 6 credits.

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 492. Mini-course in Middle Eastern Studies

At least one prior course in Near Eastern studies and/or related to the topic of the course. (1 - 3). May be elected twice for credit.

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 521. Modern Arabic Fiction

ARABIC 402 or reading knowledge of Arabic. (3). May not be repeated for credit.

MIDEAST 522. Modern Arabic Nonfiction

ARABIC 401 or reading knowledge of Arabic. (3). May not be repeated 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 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 407. Readings in Ottoman Turkish

TURKISH 406. (3). May be elected twice for credit.

TURKISH 408. Elements of Ottoman Turkish I: Arabic and Persian elements in Turkish

Second year proficiency in Turkish. (1). May not be repeated for credit.

TURKISH 409. Elements of Ottoman Turkish II: Writing Turkish in Arabic Script

First year proficiency in Turkish and first year proficiency in either Arabic or Persian. (1). May not be repeated 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. 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 360. Undergraduate Neurobiology Research

PSYCH 230 or BIOLOGY 225. (Prerequisites enforced at registration.) (2 - 3). (NS). (BS). (INDEPENDENT). May be repeated for a maximum of 9 credits.

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 397. Writing in Biology

MCDB 300 or 400, or EEB 300 or 400, or permission of instructor. (3). (BS). May not be repeated for credit. No credit granted to those who have completed or are enrolled in EEB 301, MCDB 301, or EEB 397.

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 402. Molecular Biology of Pain and Sensation

BIOLOGY 222 or BIOLOGY 225 or MCDB 422. (Prerequisites enforced at registration.) BIOLOGY 305; MCDB 310, BIOLCHEM 415 or CHEM 351; and MCDB 423. (3). (BS). May not be repeated for credit. Rackham credit requires additional work.

MCDB 405. Molecular Basis of Development

BIOLOGY 305; or graduate standing. (Prerequisites enforced at registration.) (3). (BS). May not be repeated for credit.

MCDB 406. Modern Genetic Advances

BIOLOGY 305. (Prerequisites enforced at registration.) (3). (BS). May not be repeated for credit. Rackham credit requires additional work.

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. (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 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. Introduction to Research in Cellular and Molecular Neurobiology

BIOLOGY 173. (Prerequisites enforced at registration.) BIOLOGY 225 or BIOLOGY 222; or concurrent enrollment in MCDB 422. (3). (BS). May not be repeated for credit. F and W. Satisfies a Biology laboratory requirement.

MCDB 424. Behavioral Neurobiology Laboratory

(BIOLOGY 222 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. 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, or CHEM 351. Or Graduate standing. (Prerequisites enforced at registration.) (3). (BS). May not be repeated for credit. W.

MCDB 433. Plant Metabolic Biochemistry

BIOLOGY 305 and (MCDB 310, BIOLCHEM 415, or CHEM 351). (Prerequisites enforced at registration.) (3). (BS). May not be repeated for credit.

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*; 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 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. Cell Biology and Disease

Consent of instructor required. *MCDB 428* and [*MCDB 310 or MCDB 311 or BIOLCHEM 415 or CHEM 351*]. (3). May not be repeated for credit. Rackham credit requires additional work.

MCDB 447. Lysosomes and Diseases

BIOLOGY 305; and, one of: *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 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. Molecular Neurobiology of Health and Disease

BIOLOGY 222 or 225; 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. The Visual System

BIOLOGY 222; or *BIOLOGY 225* and (*MCDB 310, 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 455. Cell Biology of Neurodegeneration

BIOLOGY 222 or 225 or 305; and *MCDB 310 or BIOLCHEM 415 or CHEM 351*. (Prerequisites enforced at registration.) *MCDB 422 or 428*. (3). (BS). May not be repeated for credit. Rackham credit requires additional work.

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.

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.

MCDB 460. Advanced Undergraduate Neurobiology Research

MCDB 300 or MCDB 360 or PSYCH 326 or PSYCH 331. (Prerequisites enforced at registration.) (2 - 3). (BS). (INDEPENDENT). May be repeated for a maximum of 9 credits.

MCDB 461. Neuroscience Senior Thesis

Consent of instructor required. (1). (BS). (INDEPENDENT). May not be repeated for credit.

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. 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. 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. 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 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.

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 the Natural Environment

(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 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 419 / ENVIRON 419. Business, Sustainability, Diversity, Equity, and Inclusion

(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. 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 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 154. Science Fiction and Philosophy

(3; 2 in the half-term). (HU). May not be repeated for credit.

PHIL 160. Moral Principles and Problems

(4; 3 in the half-term). (HU). May not be repeated for credit. No credit granted to those who have completed or are enrolled in PHIL 110.

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 202. Introduction to Philosophy

(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, 231, 232, or 297.

PHIL 230 / ASIAN 230 / RELIGION 230. Introduction to Buddhism

(4). (HU). May not be repeated for credit.

PHIL 250. Changing the World

(3; 2 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 275. Moral Puzzles, Inner Conflicts

(4; 3 in the half-term). (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

No credit granted to those who have completed or are enrolled in COGSCI 301, section titled Topics in Moral Psychology. (Prerequisites enforced at registration.) COGSCI 200 or Introductory course in Psychology or Philosophy. (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). 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). 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 322. The Methods of Science

(3; 2 in the half-term). (ID). 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 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 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.

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 387. Early Modern Feminist Philosophers

(3; 2 in the half-term). (HU). May not be repeated for credit.

PHIL 391 / CLCIV 367. Plato

One philosophy class. (3; 2 in the half-term). (HU). May not be repeated for credit.

PHIL 393 / CLCIV 369. Post-Aristotelian Philosophy

(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 426 / LING 426. Philosophy and Linguistic Theory

One philosophy introduction, one logic introduction, or concentration in Linguistics. (3; 2 in the half-term). 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 430. Topics in Ethics

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 be repeated for a maximum of 6 credits.

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 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

(4). 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.) (3). May not be repeated for credit.

PHIL 450. Philosophy of Cognition

Two courses in Philosophy. (3). May not be repeated for credit.

PHIL 456. Interpreting the Zhuangzi

(3; 2 in the half-term). 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 introduction to Philosophy. (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.

PPE 402. Senior Honors Thesis

Honors standing and permission of instructor. (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.

LSA Physics

Courses In Physics (PHYSICS)

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. It is recommended that School of Education students take PHYSICS 420.

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 135. Physics for the Life Sciences I

MATH 115, 120, 185, or 295. Students should elect PHYSICS 136 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 140 or 160.

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

(3 - 4). (NS). (BS). May be elected twice for credit. May be elected more than once in the same term.

PHYSICS 210. Energy for our Future

(3). (NS). (BS). May not be repeated for credit.

PHYSICS 235. Physics for the Life Sciences II

PHYSICS 135; and MATH 115, 120 185, or 295. Students should elect PHYSICS 236 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 240 or 260.

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

PHYSICS 125 or 135 or 140 or 160. (Prerequisites enforced at registration.) MATH 115 or equivalent AP credits. (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. (4). (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 390. Introduction to Modern Physics

COREQUISITE: PHYSICS 391. (Prerequisites enforced at registration.) PHYSICS 340 or 360 and one of: MATH 216, 256, 286 or 316. (3). (BS). May not be repeated for credit.

PHYSICS 391. Introduction to Modern Physics Lab

Corequisite PHYSICS 390. (Prerequisites enforced at registration.) PHYSICS 340 or PHYSICS 360 and PHYSICS 351. (2). (NS). (BS). May not be repeated for credit.

PHYSICS 401. Intermediate Mechanics

PHYSICS 351 or graduate standing. (Prerequisites enforced at registration.) PHYSICS 340 or 360 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 351 or graduate standing. (Prerequisites enforced at registration.) PHYSICS 340 or 360, 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 360) and PHYSICS 351, or graduate standing. (Prerequisites enforced at registration.) (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 420. Physics for Educators

School of Education concentrators. (3). May not be repeated for credit. No credit granted to those who have completed or are enrolled in PHYSICS 106. W.

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 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. Introduction to Information Theory for the Natural Sciences

MATH 215 (Multivariable and Vector Calculus). (Prerequisites enforced at registration.) MATH 425/STATS 425. (3). 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 453. Quantum Mechanics

PHYSICS 351 and PHYSICS 390; or graduate standing. (Prerequisites enforced at registration.) 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 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.

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 195. Special Topics Mini Course

Consent of department required. (1 - 2). May be elected twice 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 302. Development of Political Thought: Modern and Recent

POLSCI 101. (3). (HU). 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 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 315. Media and Public Opinion

POLSCI 111 or upperclass standing. (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). May not be repeated for credit.

POLSCI 322. US Legislative Process

POLSCI 111. (4). May not be repeated for credit.

POLSCI 323 / ENVIRON 324. Introduction to Water Law and Policy

Previous course in Environment, Political Science, or Public Policy. (3). (SS). 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 329 / COMM 329. Mass Media and Political Behavior

(4). (SS). May not be repeated for credit.

POLSCI 331 / ENVIRON 345 / SOC 380. Environmental Public Opinion Analysis

One of the following: AP STATS 180, STATS 250, STATS 280, or SOC 210. (3). (SS). May not be repeated for credit.

POLSCI 333. Comparative Elections and Election Reform

POLSCI 111 or POLSCI 140. (3). May not be repeated for credit. No credit granted to those who have previously completed or are enrolled in POLSCI 389: Elections and Election Reform" with Professor Allen Hicken.

POLSCI 334 / ANTHCUL 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 337. State and Market in Contemporary China

(4). May not be repeated for credit.

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 348. Political Economy of Development
(3). May not be repeated for credit.

POLSCI 352. How to be an Autocrat
(4). (SS). May not be repeated for credit. No credit granted to those who have completed POLSCI 389: Coercion in Autoacrices with Mai Hassan.

POLSCI 353. The Arab-Israeli Conflict
(4). May not be repeated for credit.

POLSCI 354 / SEAS 354. Governments and Politics of Southeast Asia
One course in Political Science or upperclass standing. (3). (SS). May not be repeated for credit.

POLSCI 355 / AAS 356. Democracy and Development in Africa
(4). 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 364. Public International Law
One course in Political Science. (3). 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 373. Data Science for International Studies
STATS 250 or STATS 206. (3). May not be repeated for credit.

POLSCI 377. Racial Attitudes in the U.S. and Around the World
POLSCI 111 or POLSCI 140. (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 / GERMAN 379 / 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 390. Ottawa Internship Credit
Consent of department required. (3). (EXPERIENTIAL). (INDEPENDENT). May not be repeated for credit.

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 396 / REEES 396 / SLAVIC 396 / SOC 393. East Central Europe: Nationalism, Socialism, Democracy
(3 - 4). (SS). May not be repeated for credit. May not be counted in a Slavic Department academic minor.

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 427. Race and the Shaping of American Politics

Not available for students who have completed POLSCI 496, Topic = Race and Shaping of American Politics (Topic Id # = 34). (Prerequisites enforced at registration.) Senior standing. (3). 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 445. Electoral Politics in the Developing World

POLSCI 140. (3). May not be repeated for credit.

POLSCI 446. Politics and Protest in South Africa

POLSCI 140. (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 449. Legal Theory: What is Law?

(3). May not be repeated for credit.

POLSCI 455. Democratization in Sub-Saharan Africa After the End of the Cold War

(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

Seniors only. (3 - 4). May be repeated for a maximum of 9 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 497. Undergraduate Seminar in Comparative and Foreign Government

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 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 114. Honors Introduction to Psychology

LSA Honors Students. (Prerequisites enforced at registration.) Non-honors students must obtain permission of instructor. (4). (SS). May not be repeated for credit. No credit granted to those who have completed or are enrolled in PSYCH 111, 112, or 115. May not be included in a major in Psychology or a major in Biopsychology, Cognition, and Neuroscience. Students in PSYCH 114 are required to spend three 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 / SOC 122. Intergroup Dialogues

Consent of instructor required. (2). 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. All sections of Outreach count as an experiential lab for the Psychology major; they do not count as a lab for the Biopsychology, Cognition, and Neuroscience major.

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 218. Sophomore Seminar in Psychology as a Social Science

An introductory course in psychology or similar social science. (3 - 4). (SS). May not be repeated for credit. Does not count toward the requirements for the Psychology major.

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 225 / WGS 225. Psychology of Human Sexuality

(3). (SS). May not be repeated for credit. Does not count as a breadth course for Psychology or BCN 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. Introduction to Behavioral Neuroscience

(PSYCH 111 or 112 or 114 or 115) 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.

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. Introduction to Cognitive Psychology

PSYCH 111 or 112 or 114 or 115 or 116. (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 and Gender
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 297 / WGS 297. Promoting Equity and Inclusion in the University and the Workplace
(3). (SS). (R&E). May not be repeated for credit.

PSYCH 300. Research Methods Psych NS Special Topics
One of STATS 250, STATS 280, STATS 425, or MATH 425; and one of PSYCH 220, 230, 240, 250, 270, 280, or 290. (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 250, STATS 280, STATS 425, or MATH 425; and one of PSYCH 220, 230, 240, 250, 270, 280, or 290. (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. Research Methods in Cognitive Neuroscience
One of STATS 250 OR STATS 280; and one of the following: PSYCH 220, 230, 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 250, STATS 280, STATS 425, or MATH 425; and one of PSYCH 230, 240, 250, 260, 270, 280, or 290. (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 305. Practicum in Psychology
One of the following: PSYCH 230, 240, 250, 260, 270, 280, or 290. (1 - 4). (EXPERIENTIAL). May be repeated for a maximum of 6 credits. May be elected more than once in the same term. A maximum of 12 credits may be elected through PSYCH 304, 305, 306, 307, and 308. A total of six credits of PSYCH letter-graded experiential courses may be counted for the Psychology concentration. PSYCH 305 must be taken for at least three credits to count as an experiential lab in 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 308. Peer Advising Practicum in Psychology
Consent of instructor required. Admission by application. At least junior standing in the Psychology or Brain, Behavior and Cognitive Sciences concentration. (2 - 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 310 / ALA 320 / SOC 320. Processes of Intergroup Dialogues Facilitation
Admission by application. Previous participation in ALA 122/PSYCH 122/SOC 122 strongly encouraged. (2). May not be repeated for credit.

PSYCH 311 / ALA 321 / SOC 321. Practicum in Facilitating Intergroup Dialogues
PSYCH 310/SOC 320 and permission of instructor. (3). (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 312 / ALA 228 / SOC 375. Intergroup Conflict and Coexistence: Religion, Ethnicity and Culture
(3). May not be repeated for credit.

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 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 318 / COMM 318. Media and Violence
COMM 281 strongly recommended. (4). May not be repeated for credit. No credit granted to students who have completed COMM/PSYCH 481, Media & Violence (Crse ID #019987).

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 327. Faculty Directed Early Research for Psychology as a Social 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). (INDEPENDENT). May be repeated for a maximum of 6 credits. May be repeated for a maximum of 6 credits. A student may elect a combined maximum of 6 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. 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 250 or STATS 280 or STATS 425 or MATH 425; and one of the following: PSYCH 230, 235, 240, 335, or 345. (4). (BS). May not be repeated for credit. Satisfies a Psychology research-based laboratory requirement.

PSYCH 333. Affective Neuroscience

PSYCH 230. (Prerequisites enforced at registration.) (3). (NS). (BS). May not be repeated for credit.

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.

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.

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.

PSYCH 338 / ANTHRBIO 368. Primate Behavior

(4). (NS). (BS). May not be repeated for credit. F.

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.

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.

PSYCH 341. Advanced Laboratory in Cognitive Psychology

PSYCH 240 or 245 or 345; and one of the following: 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 250, STATS 280, STATS 425, or MATH 425; and one of PSYCH 220, 230, 240, 250, 270, 280, or 290. (Prerequisites enforced at registration.) (3). (BS). May not be repeated for credit.

PSYCH 343. Cognitive Neuroscience of Learning and Memory

PSYCH 230 or 240. (Prerequisites enforced at registration.) (3). (NS). (BS). May not be repeated for credit.

PSYCH 344 / ELI 351 / LING 351. Second Language Acquisition

LING 111 or 210. (3). (BS). May not be repeated for credit.

PSYCH 345. Introduction to Human Neuropsychology

One of the following: PSYCH 111, 112, 114, 115, or 116. (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 346. Learning and Memory

PSYCH 240 or 345. (Prerequisites enforced at registration.) (3). (NS). (BS). May not be repeated for credit.

PSYCH 347. Perception

PSYCH 230, 240 or 345. (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 351. Advanced Laboratory in Developmental Psychology

PSYCH 220 or 230 or 240 or 250 or 270 or 280 or 290 or 291; AND one of: STATS 250 or STATS 280 or STATS 425 or MATH 425. (Prerequisites enforced at registration.) (3). May not be repeated for credit. Satisfies a Psychology research-based laboratory requirement. F, W, Sp.

PSYCH 352 / LING 352. Development of Language and Thought

PSYCH 250. (3). (SS). 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 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 235 or Psych 335. (Prerequisites enforced at registration.) (3). (NS). (BS). May not be repeated for credit.

PSYCH 364. Biopsychology of Sports

PSYCH 235 or PSYCH 335. (Prerequisites enforced at registration.) (3). (NS). (BS). May not be repeated for credit.

PSYCH 365. Advanced Animal Behavior

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 235 or PSYCH 335; and one of the following: 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 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 380. Topics in Social Psychology

PSYCH 280. (Prerequisites enforced at registration.) (3). (SS). May be elected twice for credit. May be elected more than once in the same term.

PSYCH 381 / SOC 472. Advanced Laboratory in Social Psychology

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 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

One of the following: PSYCH 111, 112, 114, or 115. (Prerequisites enforced at registration.) One of the following: PSYCH 230, 240, 250, 260, 270, 280, or 290. (2 - 4). 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 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

Psych or BBCS or Neuroscience concentrator. (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. 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 432. Advanced Topics in Evolutionary and Comparative Psychology

PSYCH 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 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. 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. The Developing Brain

PSYCH 230. (Prerequisites enforced at registration.) (3). (BS). May not be repeated for credit.

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.

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.

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 448. Mathematical Psychology

Sophomore standing or above and a minimum of two courses offered by either MATH (except MATH 105, 110, 127, and 128) or STATS (200 level and above). (Prerequisites enforced at registration.) (3). (BS). (QR/2). May not be repeated 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 451. Advanced Research in Adolescent Psychology

PSYCH 250 and 358. (Prerequisites enforced at registration.) (3). (BS). May not be repeated for credit.

PSYCH 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 461. Animal Cognition

PSYCH 235 or Psych 335. (Prerequisites enforced at registration.) (3). (BS). May not be repeated for credit.

PSYCH 462. Primate Communication and Language

One of the following: PSYCH 363, 364 or 365. (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 235 or 335. (Prerequisites enforced at registration.) (3). (BS). May not be repeated for credit.

PSYCH 465. Evolution and Human Nature

PSYCH 235 or 335. (Prerequisites enforced at registration.) (3). (BS). May not be repeated for credit.

PSYCH 467. Current Topics in Organizational Psychology

One of the following: PSYCH 111, 112, 114, or 115. (Prerequisites enforced at registration.) PSYCH 260. (3). May be elected twice for credit.

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 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 / 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.

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). 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 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

(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 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 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 434. Advanced Topics in the Visual Arts

Consent of instructor required. One 300-level RCARTS course. (1 - 4). May be repeated for a maximum of 12 credits.

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 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 220. Narration

Consent of instructor required. (4). (CE). May not be repeated for credit.

RCHUMS 221. The Writing of Poetry

Permission of instructor. (4). (CE). 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 / THIREMUS 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 281. Introduction to Comedy and Tragedy

(4). (HU). May not be repeated for credit. No credit granted to those who have completed or are enrolled in RCHUMS 280.

RCHUMS 282. Drama Interpretation I: Actor and Text

(4). (CE). 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 301 / ENS 405. Beginning Indonesian Orchestra

(1). May be repeated for credit.

RCHUMS 303 / ENS 407. Intermediate Indonesian Orchestra

One semester of gamelan. (1 - 2). 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 not be repeated 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 308 / ASIAN 308. Arts and Ideas of Modern South and Southeast Asia

(3). (HU). (R&E). 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 319. Topics in Film

(3). (HU). May be repeated for a maximum of 9 credits.

RCHUMS 320. Advanced Narration

Consent of instructor required. RCHUMS 220. (4). (CE). May not be repeated for credit.

RCHUMS 321. Advanced Poetry Writing

Consent of instructor required. RCHUMS 221. (4). (CE). May not be repeated for credit.

RCHUMS 325. Creative Writing Tutorial

Consent of instructor required. (4). (CE). May not be repeated for credit.

RCHUMS 326. Creative Writing Tutorial

Consent of instructor required. RCHUMS 325 and permission of instructor. (4). May be repeated for credit.

RCHUMS 330 / ISLAM 330 / MIDEAST 330 / RELIGION 330. The Arabian Nights

(3). (HU). May not be repeated for credit.

RCHUMS 332 / THTREMUS 334. The Atonement Project

May not be repeated for credit.

RCHUMS 334. Special Topics in the Humanities

(3 - 4). (HU). May be elected twice for credit. May be elected more than once in the same term.

RCHUMS 335 / THTREMUS 335. Theatre and Incarceration

May not be repeated for credit.

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 344 / HISTART 342. Reason and Passion in the 18th Century Europe

Sophomore standing. (3). (HU). May not be repeated for credit.

RCHUMS 346 / HISTART 352. Art and Philosophy in the Renaissance Tradition

(3). (HU). May not be repeated 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 354 / AAS 354 / HONORS 354 / WGS 354. Race and Identity in Music

(3). (HU). (R&E). 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 365 / RELIGION 360. Experiences of Atheism: A History of Skepticism and Unbelief

(3). (HU). May not be repeated for credit.

RCHUMS 373 / ASIAN 373. The Performing Arts in South and Southeast Asia

(3). (HU). May not be repeated for credit.

RCHUMS 374 / ASIAN 356. Contemporary Chinese Performance Culture

(3). (HU). May not be repeated for credit.

RCHUMS 381. Shakespeare on the Stage

RCHUMS 280. (4). (HU). May not be repeated for credit.

RCHUMS 383. Ibsen and Strindberg

Previous acting, Shakespeare course. (4). (HU). May not be repeated for credit.

RCHUMS 387. Renaissance Drama

(4). May not be repeated for credit.

RCHUMS 389. The Modern Theatre

(4). (HU). May be elected three times for credit.

RCHUMS 390. Special Period and Place Drama

Consent of instructor required. RCHUMS 280 and permission of instructor. (4). May be repeated 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.

RCHUMS 425. Creative Writing Tutorial

Consent of instructor required. Restricted to RC Creative Writing concentrators. (4). May be elected twice for credit.

RCHUMS 426. Creative Writing Tutorial

Consent of instructor required. (4). May be repeated for credit.

RCHUMS 481. Play Production Seminar

Consent of instructor required. (4). May be elected three times for credit.

RCHUMS 482. Drama Interpretation II: Performance Workshop

RCHUMS 280 and either RCHUMS 282 or playwriting. (4). May not be repeated for credit.

RCHUMS 483. Environmental Theater Production Workshop in the Arboretum

Consent of instructor required. Previous acting, Shakespeare courses. (2 - 4 in the half-term). May be elected four times for credit.

RCHUMS 485. Special Drama Topics

Consent of instructor required. Sophomore standing. (1 - 2). May be repeated for a maximum of 4 credits. May be elected more than once in the same term.

Courses In RC Interdivisional (RCIDIV)

RCIDIV 202. 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 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 305. The Literature of Environmental and Social Justice

(3). (ID). May not be repeated for credit.

RCIDIV 341 / MIDEAST 341. 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 390 / 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.

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 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 195. Intensive Latin I

(8). May not be repeated for credit. No credit granted to those who have completed or are enrolled in LATIN 195. 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 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 325 / LATIN 325. Readings in Latin Drama: From Text to Performance

One of RCLANG 295, LATIN 194, 195, 232, or 233, or permission of instructor. (4). May be elected twice for credit.

RCLANG 334. Tutoring Latino/a Adults and Children: Spanish in the Community

Must pass RC Spanish Proficiency Test. (2 - 3; 2 in the half-term). (EXPERIENTIAL). May be elected twice for credit.

Courses In Residential College Music Program (RCMUSIC)

RCMUSIC 205. Music Independent Study

Consent of instructor required. (1 - 4). (INDEPENDENT). May be repeated for a maximum of 12 credits. May be elected more than once in the same term. Offered mandatory credit/no credit.

RCMUSIC 206. Music Independent Study

Consent of instructor required. (1 - 4). (INDEPENDENT). May be repeated for a maximum of 12 credits. May be elected more than once in the same term.

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 305. Music Independent Study

Consent of instructor required. (1 - 4). (INDEPENDENT). May be repeated for a maximum of 12 credits. May be elected more than once in the same term. Offered mandatory credit/no credit.

RCMUSIC 306. Music Independent Study

Consent of instructor required. (1 - 4). (INDEPENDENT). May be repeated for a maximum of 12 credits. May be elected more than once in the same term.

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 334. Topics in Musical Expression

(2 - 4). (CE). May be repeated for a maximum of 12 credits. May be elected more than once in the same term.

RCMUSIC 350. Creative Musicianship

(4). (CE). May not be repeated for credit.

RCMUSIC 351. Creative Musicianship Lab

RCHUMS 350. (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 405. Music Independent Study

Consent of instructor required. (1 - 4). (INDEPENDENT). May be repeated for a maximum of 12 credits. May be elected more than once in the same term. Offered mandatory credit/no 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 201. Topics in Science, Technology, Medicine, and Society

(3 - 4). (NS). (BS). May be elected twice for credit.

RCNSCI 202 / ENVIRON 201. Ecological Issues

(4). (NS). (BS). May not be repeated for credit.

Courses In RC Social Sciences (RCSSCI)**RCSSCI 220 / SOC 220. Political Economy**

(4). (SS). May not be repeated for credit.

RCSSCI 230. Poverty, Inequality, and Discrimination

(4). (SS). May not be repeated for credit.

RCSSCI 250. 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.

RCSSCI 260. Theorizing Knowledge in the Social Sciences

(3). (SS). May not be repeated for credit.

RCSSCI 275 / HISTORY 285 / STS 285. Science, Technology, Medicine, and Society

(4). (SS). May not be repeated for credit.

RCSSCI 290. Social Science Basic Seminar

(1). May not be repeated for credit. Offered mandatory credit/no credit.

RCSSCI 301 / SOC 313. Social Science Theory I: From Social Contract to Oedipus Complex

At least one 200-level social science course. (4). (SS). May not be repeated for credit. F.

RCSSCI 302 / AMCULT 302 / STS 302. Contemporary Social and Cultural Theory

(4). (SS). May not be repeated for credit.

RCSSCI 307. Spanish Language Internship Project

(3). (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.

RCSSCI 316. Law and Social Policy

(3). (SS). May not be repeated for credit.

RCSSCI 327 / ANTHRCUL 327 / STS 327 / WGS 307. Critical Theory in Medicine and Healing

One course in ANTHRCUL or RCSSCI or WGS/AMCULT 240 (WOMENSTD/AMCULT 240) or WGS (WOMENSTD) with an SS designation. (4). (SS). May not be repeated for credit.

RCSSCI 330 / AAS 330. Urban and Community Studies I

(4). May not be repeated for credit.

RCSSCI 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.

RCSSCI 350 / ENVIRON 350. The Built Environment: Introduction to Landscape Change

(3). (ID). May not be repeated for credit.

RCSSCI 357 / HISTORY 345. History and Theory of Punishment

(4). May not be repeated for credit.

RCSSCI 360. Social Science Junior Seminar

Upperclass standing. (3 - 4). (SS). May be repeated for a maximum of 12 credits. May be elected more than once in the same term.

RCSSCI 365. Excellence, Equity, and the Politics of Education

(4). (SS). May not be repeated for credit.

RCSSCI 371 / ASIAN 371. Natural Disasters in East Asia

(4). (SS). May not be repeated for credit.

RCSSCI 390 / EDUC 390 / ELI 390 / LING 390. Community-Engaged Learning in ESL Teaching Contexts

(3). (EXPERIENTIAL). May be elected three times for credit.

RCSSCI 395 / AMCULT 361 / EDUC 395 / ELI 395 / LATINOAM 361 / LING 391. Principles and Practices of Teaching ESL in Migrant Communities

(3). (R&E). (EXPERIENTIAL). May be elected three times for credit.

RCSSCI 396 / AMCULT 362 / EDUC 396 / ELI 396 / LATINOAM 362 / LING 396. Migrant Community Outreach and ESL Teaching Practicum

ELI 395; completed with a minimum grade of C or better. (Prerequisites enforced at registration.) (2 - 3). (EXPERIENTIAL). May be elected three times for credit.

RCSSCI 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.

RCSSCI 460. Social Science Senior Seminar

Senior standing. (4). May be repeated for credit.

RCSSCI 461. Senior Seminar

(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). May not be repeated for credit.

FRENCH 241 / HISTART 271. Origins of Modernism: Art and Culture in Nineteenth Century France

(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 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. Offered mandatory credit/no 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 344 / HISTORY 313. The Revolutionary Century: France, 1789-1900

(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 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 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 365. African Studies (Sub-Saharan)

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 368. Enlightenment, Revolution, and Romanticism

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 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 378. Studies in Genre

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.

FRENCH 379. Studies in Gender and Sexuality

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.

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. Offered mandatory credit/no credit.

FRENCH 385. 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 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 in 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 240. 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 310. Italian Cities

A knowledge of Italian is not required. (3). (HU). May not be repeated for credit. Taught in English.

ITALIAN 312. Genius and Geography

A knowledge of Italian is not required. (3). May not be repeated for credit. Taught in English.

ITALIAN 314 / HISTORY 326. Modern Italy: 1815 to Present

(3). May not be repeated for credit.

ITALIAN 315. Italian Cinema and Society Since 1945

A knowledge of Italian is not required. (3). (HU). May be elected twice for credit. Taught in English.

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 325. Italian Novels and Films

ITALIAN 230, 232, 233, or 410. (3). May be repeated for a maximum of 9 credits. Taught in Italian.

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 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 470. Advanced Topics in Italian Studies

ITALIAN 230, 232, or 233. Taught in Italian. (3). May be elected three times for credit. May be elected more than once in the same term. Rackham credit requires additional work.

ITALIAN 492. Senior Honors Course

Consent of department required. ITALIAN 491. (3). (INDEPENDENT). May not be repeated 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

One of: SPANISH 275, 276, 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 471. Literature in the Portuguese-Speaking World

PORTUG 287 or its equivalent to prove advanced proficiency in the Portuguese language. (3). May not be repeated for credit. Taught in Portuguese.

PORTUG 472. Cinema in the Portuguese-Speaking World

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.

PORTUG 499. Advanced Independent Study

Consent of instructor required. PORTUG 287 or its equivalent to prove advanced proficiency in the Portuguese language. (1 - 3). (INDEPENDENT). May be repeated for a maximum of 6 credits.

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 253. The Mediterranean: History and Culture

(3). (HU). May not be repeated for credit. No credit granted to those who have completed or are enrolled in either HISTART 253 or JUDAIC 253.

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 495. Independent Study

Consent of department required. Application required. (1 - 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 418 / SPANISH 418. Spanish Second Language Acquisition

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 450. Independent Study

Consent of instructor required. (1 - 3). (INDEPENDENT). May be repeated for credit.

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 Grammar and Composition

SPANISH 230 or 232 with a grade of C- or higher; RCLANG 294 or 314; or assignment of SPANISH 277 or SPANISH 275 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 276. SPANISH 277 is the prerequisite for a minor or major in Spanish.

SPANISH 278 / AMCULT 224 / LATINOAM 224. Spanish for Heritage Language Learners

Basic knowledge of Spanish language. (3). (Lang Req). May not be repeated for credit. No credit granted to students who have completed SPANISH 290. 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). 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). 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 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 339. Introduction to Spanish Culture Before 19th Century

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 340. Introduction to Contemporary Spanish 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 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 not be repeated for credit.

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 372. Survey of Spanish Literature, II

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 375. Topics in Hispano/Islamic/Sephardic 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 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 387. Social Forces and Cultural Production in Medieval/Early Modern 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 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 418 / ROMLING 418. Spanish Second Language Acquisition

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 437. Introduction to Literature Studies and Criticism

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 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 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 447. The Archive

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 450. Middle Ages

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 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 456. Golden Age

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 460. The Spanish Comedia

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 466. The Modern Spanish Novel II

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 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 480. Transnational 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 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 350 / JUDAIC 350 / REEES 350. Legacy of the Holocaust in Yugoslav Culture: How and Why We Need to Narrate the Holocaust

(3). (HU). 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 357. Polish Drama in Context

(3). (HU). 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

(5). 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.) (5). 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 123. Intensive First Year Russian

(8 in the half-term). 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 101, 102, or RUSSIAN 103/RCLANG 193 or RUSSIAN 511 or 512. Sp, Su.

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 223. Intensive Second Year Russian

RUSSIAN 123 or 103 or 102, or RCLANG 123. (Prerequisites enforced at registration.) (8 in the half-term). (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 201, 202, or RUSSIAN 203/RCLANG 293. Sp, Su.

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 303. Third-Year Intensive Russian

RUSSIAN 202, 203, 223, 225 or RCLANG 293. (Prerequisites enforced at registration.) (8). May not be repeated for credit. No credit granted to those who have completed or are enrolled in RUSSIAN 301, 302, 515, or 516. S.

RUSSIAN 333. Sport in Russia

(3). (HU). May not be repeated for credit.

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 352. Russian Literature of the Eighteenth Century

(3). May not be repeated for credit.

RUSSIAN 358. Central Asia through Russian Eyes: Cultural Appropriation of an Exotic Land

(3). (HU). (R&E). May not be repeated for credit. No credit granted to those who have completed or are enrolled in RUSSIAN 558. Taught in English.

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 364. Anton Chekhov and His Time

Permission of instructor. (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 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 / REEES 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 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.

RUSSIAN 552. Russian Literature of the Eighteenth Century

(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 151. First Year Seminar

Enrollment restricted to first-year students, including those with sophomore standing. (4). May not be repeated for credit.

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 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 396 / POLSCI 396 / REEES 396 / SOC 393. East Central Europe: Nationalism, Socialism, Democracy

(3 - 4). (SS). May not be repeated for credit. May not be counted in a Slavic Department academic minor.

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.

SLAVIC 471. Seminar in Cultural Studies of Central, Eastern and Southern Europe

(3). May be elected twice for credit. Rackham credit requires additional work.

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 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 / PSYCH 122. Intergroup Dialogues

Consent of instructor required. (2). 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. International Migration and the Politics of Membership in a Globalizing World

(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 / RCSSCI 220. Political Economy

(4). (SS). May not be repeated for credit.

SOC 225. Project Community: Sociology in Action

(2 - 4). (EXPERIENTIAL). May not be repeated for credit. A combined total of eight credits of SOC 225 (and 389), 321, 324, 394, 395, and 396 may be counted toward a major in Sociology. A maximum of four credits of SOC 225 (and 389) may be included in a major in sociology.

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). 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 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

(3). (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 / RCSSCI 301. Social Science Theory I: From Social Contract to Oedipus Complex

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. (2). May not be repeated for credit.

SOC 321 / ALA 321 / PSYCH 311. Practicum in Facilitating Intergroup Dialogues

PSYCH 310/SOC 320 and permission of instructor. (3). (R&E). (EXPERIENTIAL). May not be repeated for credit. A combined total of eight credits of SOC 225 (and 389), 321, 324, 394, 395, and 396 may be counted toward a major in Sociology.

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 eight credits of SOC 225 (and 389), 321, 324, 394, 395, and 396 may be counted toward a major 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 / RCSSCI 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 347. Drugs and Society

One introductory course in Sociology. (4; 3 in the half-term). (SS). May not be repeated for credit.

SOC 350. Human Rights in the United Nations

One introductory course in sociology, political science, or other disciplines that examine human rights and globalization. (4). 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 375 / ALA 228 / PSYCH 312. Intergroup Conflict and Coexistence: Religion, Ethnicity and Culture

(3). May not be repeated for credit.

SOC 379 / GERMAN 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 380 / ENVIRON 345 / POLSCI 331. Environmental Public Opinion Analysis

One of the following: AP STATS 180, STATS 250, STATS 280, or SOC 210. (3). (SS). May not be repeated for credit.

SOC 385 / DIGITAL 325. Imagining the Future through Current and Developing Technologies

One introductory course in Sociology. (3 - 4). May not be repeated for credit.

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 393 / POLSCI 396 / REEES 396 / SLAVIC 396. East Central Europe: Nationalism, Socialism, Democracy

(3 - 4). (SS). May not be repeated for credit. May not be counted in a Slavic Department academic minor.

SOC 394. Undergraduate Research

Consent of instructor required. (1 - 4). (INDEPENDENT). May be repeated for a maximum of 8 credits. A combined total of eight credits of SOC 225 (and 389), 321, 324, 394, 395, and 396 may be counted toward a major 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 eight credits of SOC 225 (and 389), 321, 324, 394, 395, and 396 may be counted toward a major 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 eight credits of SOC 225 (and 389), 321, 324, 394, 395, and 396 may be counted toward a major 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 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

(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 440. Sociology of Work

One introductory course in Sociology. (3). May not be repeated for credit.

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 455 / RELIGION 455. Religion and Society

One introductory course in sociology. (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 468. Crime and Justice: Inside-Out Prison Exchange Course

Students will not earn credit if previously elected SOC 495.001 "Inside Out" in Fall 2016 (Topic #70) or SOC 495.001 Crime & Justice in Winter 2017 (Topic #72). (Prerequisites enforced at registration.) SOC 368: Criminology. (3). (EXPERIENTIAL). 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 472 / PSYCH 381. Advanced Laboratory in Social Psychology

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.

SOC 473. Reproductive Health and Justice

One introductory course in Sociology. (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 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.

LSA Statistics

Courses In Data Science (DATASCI)

DATASCI 101 / STATS 206. Introduction to Data Science

High school algebra. (4). (MSA). (BS). (QR/1). May not be repeated for credit.

DATASCI 306 / STATS 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 / STATS 315. Statistics and Artificial Intelligence

(Stats 250 or Stats 206 or Stats 280 or Stats 412 or IOE 265) and (Stats 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 / STATS 406. Computational Methods in Statistics and Data Science

[MATH 214 OR MATH 217 OR MATH 417] AND [(STATS 250 AND MATH/STATS 425) OR STATS 412 OR STATS 426] AND [STAT 306 OR EECS 183 OR ENGR 101 OR EECS 280]. (3). (BS). May not be repeated for credit.

DATASCI 413 / STATS 413. Applied Regression Analysis

[MATH 214, OR MATH 217 OR MATH 417] AND [(STATS 250 AND MATH/STATS 425) OR STATS 412 OR STATS 426]. (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.

DATASCI 415 / STATS 415. Data Mining and Statistical Learning

(MATH 214 or MATH 217) and either (one of STATS 401, STATS 412, STATS 426) or (MATH/STATS 425 and (DATASCI 101 or STATS 206 or STATS 250 or STATS 280)). (Prerequisites enforced at registration.) (4). (BS). May not be repeated for credit.

DATASCI 451 / STATS 451. Bayesian Data Analysis

(STATS 412 or STATS 425) and (STATS 306 or EECS 280). (Prerequisites enforced at registration.) (3). (BS). May not be repeated for credit.

DATASCI 485 / STATS 485. Capstone Seminar

STATS/DATASCI 413 and senior standing. (Prerequisites enforced at registration.) (3). (BS). May not be repeated for credit.

DATASCI 501 / STATS 501. Applied Statistics II

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 150. Making Sense of Data

(3). (MSA). (BS). (QR/1). May not be repeated for credit. No credit granted to those who have completed or are enrolled in SOC 210, IOE 265, STATS 250(350), 280, 400, 412, or ECON 404, ECON 405.

STATS 206 / DATASCI 101. Introduction to Data Science

High school algebra. (4). (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 306 / 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.

STATS 315 / DATASCI 315. Statistics and Artificial Intelligence

(Stats 250 or Stats 206 or Stats 280 or Stats 412 or IOE 265) and (Stats 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.

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 403. Introduction to Quantitative Research Methods

STATS 401 or (STATS 250 and [MATH 214 or MATH 217]). (4). (BS). May not be repeated for credit.

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 406 / DATASCI 406. Computational Methods in Statistics and Data Science

[MATH 214 OR MATH 217 OR MATH 417] AND [(STATS 250 AND MATH/STATS 425) OR STATS 412 OR STATS 426] AND [STAT 306 OR EECS 183 OR ENGR 101 OR EECS 280]. (3). (BS). May not be repeated for credit. F.

STATS 412. Introduction to Probability and Statistics

MATH 215 or MATH 285. (Prerequisites enforced at registration.) (3). (BS). (QR/1). May not be repeated for credit. No credit granted to those who have completed or are enrolled in ECON 451, ECON 453, STATS 250, STATS 280, or IOE 265. May not be used in the Statistics or Applied Statistics academic minor. F, W, Sp.

STATS 413 / DATASCI 413. Applied Regression Analysis

[MATH 214, OR MATH 217 OR MATH 417] AND [(STATS 250 AND MATH/STATS 425) OR STATS 412 OR STATS 426]. (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 414. Special Topics in Statistics

Consent of department required. Varies by term and instructor. (2 - 4). May be elected twice for credit. May be elected more than once in the same term. Rackham credit requires additional work.

STATS 415 / DATASCI 415. Data Mining and Statistical Learning

(MATH 214 or MATH 217) and either (one of STATS 401, STATS 412, STATS 426) or (MATH/STATS 425 and (DATASCI 101 or STATS 206 or STATS 250 or STATS 280)). (Prerequisites enforced at registration.) (4). (BS). May not be repeated for credit.

STATS 425 / MATH 425. Introduction to Probability

MATH 215. (3). (BS). May not be repeated for credit. F, W, Sp, Su.

STATS 426. Introduction to Theoretical Statistics

(MATH/STATS 425 or STATS 412) and (MATH 214 or MATH 217). (Prerequisites enforced at registration.) (3). (BS). May not be repeated for credit.

STATS 430. Applied Probability

STATS 425 or equivalent. (3). (BS). May not be repeated for credit.

STATS 449 / BIostat 449. Topics in Biostatistics

STATS 401, 403, or 425 or permission of instructor. (3). (BS). May not be repeated for credit.

STATS 451 / DATASCI 451. Bayesian Data Analysis

(STATS 412 or STATS 425) and (STATS 306 or EECS 280). (Prerequisites enforced at registration.) (3). (BS). May not be repeated for credit.

STATS 470. Introduction to the Design of Experiments

STATS 401 or 412 or 425, or MATH 425. (Prerequisites enforced at registration.) (4). (BS). May not be repeated for credit. F.

STATS 480. Survey Sampling Techniques

STATS 401 or 412 or 425 or MATH 425. (Prerequisites enforced at registration.) (4). (BS). May not be repeated for credit. W.

STATS 485 / DATASCI 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. Applied Statistics II

STATS 500 or permission of instructor. (3). (BS). May not be repeated for credit. W.

STATS 525 / MATH 525. Probability Theory

MATH 451 (strongly recommended). MATH 425/STATS 425 would be helpful. (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 547 / BIOINF 547 / MATH 547. Mathematics of Data

MATH, Flexible, due to diverse backgrounds of intended audience. Basic probability (level of MATH/STATS 425), 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 111 / JUDAIC 121 / MELANG 102. Elementary Classical Hebrew II

MELANG 101 (NESLANG 101). (3). May not be repeated for credit.

RELIGION 201 / MIDEAST 202. Introduction to Judaism, Christianity, Islam

(4; 3 in the half-term). (HU). *May not be repeated for credit. F.*

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. Death, Immortality, and Afterlife

(3). (ID). *May not be repeated for credit.*

RELIGION 210 / JUDAIC 220 / MELANG 201. Intermediate Classical Hebrew I

MELANG 102 (NESLANG 102). (3). May not be repeated for credit.

RELIGION 211 / JUDAIC 221 / MELANG 202. Intermediate Classical Hebrew II

MELANG 201 (NESLANG 201). (3). (Lang Req). May not be repeated for credit.

RELIGION 212 / ASIAN 211 / SEAS 211. Monks, Magic and Mediums: Buddhism in Southeast Asia

(3). (HU). *May not be repeated for credit.*

RELIGION 225 / ASIAN 225. Introduction to Hinduism

(3). (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 235 / JUDAIC 235 / MIDEAST 235. Introduction to the Tanakh/Old Testament

(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 260 / HISTORY 269 / JUDAIC 260. Introduction to the Talmud and the Rabbis

(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

(3). (HU). *May not be repeated for credit.*

RELIGION 319 / ASIAN 319. Spirits of Contemporary Japan in Popular Culture

ASIAN 200. (3). (HU). May not be repeated for credit.

RELIGION 321 / AAS 320. Religion in Afro-Atlantic History

(3). (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 / CLARCH 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 330 / ISLAM 330 / MIDEAST 330 / RCHUMS 330. The Arabian Nights

(3). (HU). *May not be repeated for credit.*

RELIGION 346 / HISTART 346. The Moving Image in the Middle Ages

(3). (HU). May not be repeated for credit.

RELIGION 353 / CLARCH 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 360 / RCHUMS 365. Experiences of Atheism: A History of Skepticism and Unbelief

(3). (HU). May not be repeated 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 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 400 / ASIAN 400 / HISTORY 422. India and the West

Junior and above. (3). May not be repeated for credit. Rackham credit requires additional work.

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 455 / SOC 455. Religion and Society

One introductory course in sociology. (3). May not be repeated for credit.

RELIGION 461 / ISLAM 424 / MIDEAST 424. Islamic Intellectual History

Taught in English. (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 467 / HISTORY 427 / ISLAM 422 / MIDEAST 422. The History of Shi'ism: Drama, Ritual, and Memory

Junior standing or permission of instructor. (3). May not be repeated for credit.

RELIGION 469 / JUDAIC 468 / MIDEAST 456. Jewish Mysticism

(3). May not be repeated for credit. Taught in English.

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 486 / ASIAN 486. Buddhist Meditation

ASIAN 230. (3). May not be repeated for credit.

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 496 / HISTORY 429 / ISLAM 432 / MIDEAST 432 / WGS 471. Gender and Sexuality in Pre-Modern Islam

Students should preferably have had one course in Islamic Studies. (3). May not be repeated for credit. Taught in English.

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 240. Professional and Technical Presentation 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 340. Professional and Technical Writing and Communication in International Contexts

(1). May not be repeated for 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 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 410. Quantitative Analysis and Writing in the Disciplines

Completion of the First-Year Writing Requirement. (3). (QR/2). May be repeated for a maximum of 6 credits. Rackham credit requires additional work.

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. (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. (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 122 / PSYCH 122 / SOC 122. Intergroup Dialogues

Consent of instructor required. (2). 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 160. 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 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 209. International Perspectives on Health and Health Care Topics

Consent of instructor required. (2 - 4). (ID). May be elected twice 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 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 228 / PSYCH 312 / SOC 375. Intergroup Conflict and Coexistence: Religion, Ethnicity and Culture

(3). May not be repeated for credit.

ALA 230. STEM Transitions: Strategies for STEM Success

(1). May not be repeated for 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 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). 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 301. Tours of the Past

(1). (EXPERIENTIAL). May not be repeated for credit. No credit granted to those who have completed or are enrolled in UC 300. Offered mandatory credit/no 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. (2). May not be repeated for credit.

ALA 321 / PSYCH 311 / SOC 321. Practicum in Facilitating Intergroup Dialogues

PSYCH 310/SOC 320 and permission of instructor. (3). (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. Facilitation for Effective Leadership

Not available to students who have completed UC 370-003, Facilitation for Effective Leadership (Topic #9). (Prerequisites enforced at registration.) (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 361. Social Science Topics in ALA

(1 - 4). (SS). May be repeated for a maximum of 9 credits. May be elected more than once in the same term.

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 421. Creating Inclusive Communities

Consent of instructor required. (1 - 2). (EXPERIENTIAL). May be repeated for a maximum of 4 credits. Offered mandatory credit/no credit.

ALA 429 / PSYCH 411 / SOC 471. IGR Senior Capstone: Social Justice in the Real World

AERO 102/Permission of Instructor. 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 110 / SI 110. Introduction to Information Studies

(4). (SS). 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 252. Sophomore Natural Science Seminar

Completion of FYWR. (3). (NS). (BS). May not be repeated for credit.

UC 270. University Courses Special Topics

(1 - 3). May be elected four times for credit. May be elected more than once in the same term.

UC 275. Global Intercultural Experience for Undergraduates

Consent of instructor required. (1 - 2). (EXPERIENTIAL). 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.

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 399. Directed Study

Permission of instructor. (1 - 3). (INDEPENDENT). May be repeated for a maximum of 6 credits.

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 427. Capstone Practicum

(1 - 3). (EXPERIENTIAL). May be elected three times for credit. May be elected more than once in the same term. Offered mandatory credit/no credit.

UC 499. Directed Study

Permission of instructor. (1 - 3). (INDEPENDENT). May be repeated for a maximum of 6 credits.

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 215 / ARCH 216 / HISTART 216. Contested Spaces: Art, Architecture, Politics

(4). (HU). (R&E). 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 224 / HISTORY 222 / JUDAIC 224. Sex and Sexuality in Jewish History and Culture

(3). (HU). May not be repeated for credit.

WGS 225 / PSYCH 225. Psychology of Human Sexuality

(3). (SS). May not be repeated for credit.

WGS 235 / AMAS 235 / AMCULT 235. From Harems to Terrorists: Representing the Middle East in Hollywood Cinema

(4). (HU). (R&E). 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 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 291 / PSYCH 291. Introduction to the Psychology of Women and Gender

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 293 / AMCULT 293. 20th Century Writing by Women of Color

(3). (HU). May not be repeated for credit.

WGS 295 / AMCULT 295. Sexuality in Western Culture

(3). (SS). May not be repeated for credit.

WGS 297 / PSYCH 297. Promoting Equity and Inclusion in the University and the Workplace
 (3). (SS). (R&E). May not be repeated for credit.

WGS 300. Men's Health
 (3). (ID). 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 307 / ANTHRCUL 327 / RCSSCI 327 / STS 327. Critical Theory in Medicine and Healing
 One course in ANTHRCUL or RCSSCI or WGS/AMCULT 240 (WOMENSTD/AMCULT 240) or WGS (WOMENSTD) with an SS designation. (4). (SS). May not be repeated for credit.

WGS 311 / ASIAN 310. Family in Japan
 (3). (SS). 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 316 / HISTORY 316 / MEMS 316. Women and Gender in Medieval Europe: 500-1500
 One course in Women's & Gender Studies or History. (3). (SS). May not be repeated for credit.

WGS 319. Race, Class, and Reproductive Health
 WGS/AMCULT 240 (WOMENSTD/AMCULT 240) Introduction to Women's Studies OR WGS/NURS 220 (WOMENSTD/NURS 220) Perspectives in Women's Health. (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 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 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 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/AMCULT240). (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 354 / AAS 354 / HONORS 354 / RCHUMS 354. Race and Identity in Music

(3). (HU). (R&E). May not be repeated for credit.

WGS 360 / AMCULT 342 / HISTORY 368. History of the Family in the U.S.

(4; 3 in the half-term). (ID). (R&E). May not be repeated for credit.

WGS 363 / AMCULT 363 / ASIANPAM 363. Asian/Pacific Islander American Women

(3). May not be repeated for credit.

WGS 365 / AAS 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 370 / AMCULT 375 / HISTORY 370. Queer Histories of the United States, 1850 to the Present

(4; 3 in the half-term). (SS). May not be repeated for credit.

WGS 371 / AMCULT 371 / HISTORY 371. Sex and Gender in U.S. History, 1600-2015

Students will not receive credit for this course if they've taken HISTORY 328 with the title "Sex and Gender in U.S. History, 1600-2000" (topic ID #48). (Prerequisites enforced at registration.) (3 - 4). (HU). (R&E). 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. Women, 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 414 / ENGLISH 415. Studies in Women and Literature

(3). May not be repeated for credit.

WGS 417. Race, Gender, and Mental Health in the 19th Century

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 422 / POLSCI 401. Feminist Political Theory

Junior standing. (3). May not be repeated for credit.

WGS 425 / AMCULT 425. Feminist Practice of Oral History

One course in WGS (WOMENSTD) or AMCULT. (3). May not be repeated for credit. Rackham credit requires additional work.

WGS 428 / ANTHRCUL 428 / RCSSCI 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 443 / AAS 443. Pedagogy of Empowerment: Activism in Race, Gender, and Health
 AAS 201, WGS/AMCULT 240 (WOMENSTD/AMCULT 240) or WGS/NURS 220 (WOMENSTD/NURS 220). (3). May not be repeated for 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 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 471 / HISTORY 429 / ISLAM 432 / MIDEAST 432 / RELIGION 496. Gender and Sexuality in Pre-Modern Islam
 Students should preferably have had one course in Islamic Studies. (3). 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.

WGS 496 / ISLAM 433 / MIDEAST 433. Gender and Representation in the Modern Middle East
 (3). 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 215 / HISTART 215. Architecture in Capitalism: Corporations and the Built Environment from McDonald's to the Medici
 (4). (HU). May not be repeated for credit.

ARCH 216 / HISTART 216 / WGS 215. Contested Spaces: Art, Architecture, Politics
 (4). (HU). (R&E). May not be repeated for credit.

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.

ARCH 467 / HISTART 476. Urban Fragments: The Americas

(3). 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] and CHEM 210; (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.

CHE 559 / MACROMOL 559 / MATSCIE 559. Foundations of Nanotechnology II

Senior or graduate standing. (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). (QR2). 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). (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). (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). (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). (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

(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 285. Practical Programming in Java

EECS 280; (C or better; No OP/F). (Prerequisites enforced at registration.) (BS). May not be repeated for credit.

EECS 367. 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). (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 370 (C or better) or equivalent. (BS). May not be repeated for credit.

EECS 390. Programming Paradigms

EECS 281; (C or better, No OP/F). (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. System Design of a Search Engine

EECS 281; (C or better). (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). (Prerequisites enforced at registration.) STATS 250 or equivalent. (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. (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. (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. (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). (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 480. Social Computing Systems

EECS 485 or 493; (C or better; No OP/F). (Prerequisites enforced at registration.) (BS). May not be repeated for credit.

EECS 481. Software Engineering

[EECS 281; (C or better, No OP/F)] or Graduate Standing in CSE. (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). (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). (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. (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 482; (C or better, No OP/F) or Graduate Standing in CSE. (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. Software Development for Accessibility

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 530 / APPPHYS 530. Electromagnetic Theory I

PHYSICS 438 or EECS 330. (3). (BS). May not be repeated for credit. F.

EECS 540 / APPPHYS 540. Applied Quantum Mechanics

Permission of instructor. (3). (BS). May not be repeated for credit. F.

EECS 541 / APPPHYS 541. Applied Quantum Mechanics II

APPPHYS 540. (3). (BS). May not 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.

EECS 572. Randomness and Computation

[EECS 376; (C or better, No OP/F)] or Graduate Standing. (Prerequisites enforced at registration.) Coursework in probability and algorithms. (BS). May not be repeated for credit.

EECS 574. Computational Complexity

EECS 376 or graduate standing. (4). (BS). May not be repeated for credit. F.

EECS 575. Advanced Cryptography

EECS 203 or equivalent. EECS 574 recommended. (4). (BS). May not be repeated for credit. W.

EECS 579. Digital Systems Testing

Graduate standing. (4). (BS). May not be repeated for credit. F.

EECS 582. Advanced Operating Systems

EECS 482/EQ. (4). (BS). May not be repeated for credit. W.

EECS 583. Advanced Compilers

EECS 281 and 370 (EECS 483 is also recommended). (4). (BS). May not be repeated for credit. F.

EECS 584. Advanced Database Systems

EECS 484 or permission of instructor. (4). (BS). May not be repeated for credit. F.

EECS 586. Design and Analysis of Algorithms

EECS 281. (4). (BS). May not be repeated for credit. W.

EECS 587. Parallel Computing

EECS 281; graduate standing. (4). (BS). May not be repeated for credit. F.

EECS 588. Computer and Network Security

EECS 482 or 489; or graduate standing. (4). (BS). May not be repeated for credit. F.

EECS 589. Advanced Computer Networks

EECS 489. (4). (BS). May not be repeated for credit. W.

EECS 590. Advanced Programming Languages

EECS 281 or equivalent. (4). (BS). May not be repeated for credit. W.

EECS 595 / LING 541 / SI 561. Natural Language Processing

Senior standing. (3). (BS). May not be repeated for credit. F.

EECS 598. Special Topics

Permission of instructor or counselor. (1 - 4). (BS). May be repeated for credit. F, W, Sp/Su, Sp, Su.

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) and CHEM 210; (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.

MACROMOL 559 / CHE 559 / MATSCIE 559. Foundations of Nanotechnology II

Senior or graduate standing. (3). (BS). May not be repeated for credit.

CoE Materials Science and Engineering

Courses In Materials Science Engineering (MATSCIE)

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) and CHEM 210; (C- or better)] or Graduate. (Prerequisites enforced at registration.) (BS). May not be repeated for credit.

MATSCIE 510 / CHEM 511. Materials Chemistry

CHEM 461, BIOLCHEM 415, CHEM 430; and permission of course director. (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 permission 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.

MATSCIE 559 / CHE 559 / MACROMOL 559. Foundations of Nanotechnology II

Senior or graduate standing. (3). (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

MATH. Flexible, due to diverse backgrounds of intended audience. Basic probability (level of MATH/STATS 425), 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 416. Introductory Biochemistry Laboratory

Qualitative analysis; prior or concurrent election of BIOLCHEM 415 or 451/452 or CHEM 451/452. (3). (BS). May not be repeated for credit. No credit granted to those who have completed or are enrolled in BIOLOGY 429 or BIOLCHEM 516. 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 / 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 Internal Medicine

Courses In Internal Medicine (INTMED)

INTMED 409 / MICRBIOL 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.

INTMED 460 / MICRBIOL 460. Eukaryotic Microbiology

BIOLOGY 172. (3). (BS). May not be repeated for credit. Rackham credit requires additional work.

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 / 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**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. 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 Arts Administration (ARTSADMIN)

ARTSADMIN 385 / THTREMUS 385. Performing Arts Management

Consent of instructor required. May not be repeated for credit.

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 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 405 / RCHUMS 301. Beginning Indonesian Orchestra**

(1). May be repeated for credit. Yields no honor points.

ENS 407 / RCHUMS 303. Intermediate Indonesian Orchestra

One semester of gamelan. (1 - 2). May be repeated for credit. Yields no honor points.

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 Improvisn I**

Consent of instructor required. Music major or permission of instructor. (3). May be repeated for credit.

JAZZ 467. Jazz Improvisn 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 306. Special Course

NON-MUS ONLY. (3). May not be repeated for credit.

MUSICOL 345. History of Music

NON-MUS ONLY. (3). (HU). May not be repeated for credit.

MUSICOL 346. History of Music

NON-MUS ONLY. (3). (HU). May not 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 420. Topics in Baroque Music

UG ONLY. (3; 2 in the half-term). May not be repeated for credit. Graduate students elect MUSICOL 520.

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 458. Mus in Culture

UG ONLY. (3). May not be repeated for credit. Graduate students elect MUSICOL 558.

MUSICOL 465. Music in Africa

UG ONLY. (3). May not be repeated for credit.

MUSICOL 477. Medieval Music

UG ONLY. (3). May not be repeated for credit.

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 435. Pop-Rock Music Theory

THEORY 240 AND 250. (Prerequisites enforced at registration.) THEORY 239 or JAZZ 221 may substitute for Theory 250. May be repeated for credit. Non-Rackham Graduate 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 535. Pop-Rock Music Theory

THEORY 240 AND 250. (Prerequisites enforced at registration.) THEORY 259 or JAZZ 221 may substitute for THEORY 250. May 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 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 (THREMUS)

THREMUS 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.

THREMUS 102. Intro to Acting II

Consent of instructor required. Consent of instructor. (3). (CE). May not be repeated for credit.

THREMUS 110. Introduction to Acting for the Camera

THREMUS 101 and/or permission of instructor. (3). (CE). May not be repeated for credit.

THREMUS 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.

THREMUS 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 245. Introduction to Stage Management
 Permission of instructor. (2 - 3). (CE). May not be repeated for credit.

THTREMUS 250. Introduction to Technical Theatre Practices
 (3; 2 in the half-term). May not be repeated for credit.

THTREMUS 251. Practicum I
 (1). May not be repeated for credit.

THTREMUS 252. Prod Practicum II
 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. Practicum III
 Permission of instructor. (1). May not be repeated for credit.

THTREMUS 262. Practicum IV
 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 277. History of Western Silhouettes
 Permission of instructor. (3). May not be repeated for credit.

THTREMUS 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.

THTREMUS 321 / ENGLISH 443. History of Theatre I
 (3). May not be repeated for credit.

THTREMUS 322 / ENGLISH 444. History of Theatre II
 (3). May not be repeated for credit.

THTREMUS 323 / ENGLISH 349. American Theatre and Drama
 (3). (HU). May not be repeated for credit.

THTREMUS 324. Global Community Practicum
 THTREMUS 222. (Prerequisites enforced at registration.) Permission of instructor. May be repeated for a maximum of 6 credits.

THTREMUS 325. Contemporary American Theatre and Drama
 (3). May not be repeated for credit.

THTREMUS 327 / ENGLISH 327. Intermediate Playwriting
 ENGLISH 227. (3; 2 in the half-term). May not be repeated for credit.

THTREMUS 328 / ENGLISH 311. Theater of Politics
 Consent of department required. (3). (HU). May not be repeated for credit.

THTREMUS 334 / RCHUMS 332. The Atonement Project
 (3). May not be repeated for credit.

THTREMUS 335 / RCHUMS 335. Theatre and Incarceration
 May not be repeated for credit.

THTREMUS 340. Devising Theatre
 Permission of instructor. (3 in the half-term). May be repeated for a maximum of 6 credits.

THTREMUS 345. Stage Management-Plays
 Consent of instructor required. THTREMUS 351 & permission of instructor. (2 - 6). May be repeated for a maximum of 6 credits.

THTREMUS 350. Scenic Constructn I
 THTREMUS 250&362/P.I. (3). May not be repeated for credit.

THTREMUS 351. Practicum V
 Permission of instructor. (1 - 3). May not be repeated for credit.

THTREMUS 352. Practicum VI
 Permission of instructor. (1 - 3). May not be repeated for credit.

THTREMUS 353. Sound for Theatre
 Consent of instructor required. Consent of instructor required. THTREMUS 250&P.I. (2). May be elected five times for credit. W.

THTREMUS 356. Lighting Design II
 Consent of instructor required. Consent of instructor required. THTREMUS 256/P.I. (3). May not be repeated for credit.

THTREMUS 360. Scene Design II
 Consent of instructor required. Consent of instructor required. THTREMUS 260/P.I. (3). May not be repeated for credit.

THTREMUS 385 / ARTSADMN 385. Performing Arts Management
 Consent of instructor required. (2). May not be repeated for credit.

THTREMUS 386. Prac Perfor Art Mgt
 Consent of instructor required. PER. INSTR. (3). May not be repeated for credit.

THTREMUS 399. Topics in Drama
 (1 - 4). May be repeated for credit.

THTREMUS 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.

THTREMUS 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. Des&Prod Seminar

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. Playwr Production

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 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 452. Period Costume Techniques

Consent of instructor required. Permission of instructor. (3). May not be repeated for credit. W.

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 464. Sc Paint for Theatr

THTREMUS 250. (3). May not be repeated for credit.

THTREMUS 466. History of Decor

Permission of instructor. (3). May not be repeated for credit. W.

THTREMUS 468. History of Theatre Architecture

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.

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 Entrepreneurial Studies (ES)**ES 212 / UC 214. Entrepreneurial Business Basics**

Non-Ross Sophomores or above (Undergrad only). (Prerequisites enforced at registration.) (3). 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 312 / ENVIRON 326. Green Building - Engagement**

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 333 / DIGITAL 333. Video Games and Learning

(3). (SS). May not be repeated for credit.

EDUC 390 / ELI 390 / LING 390 / RCSSCI 390. Community-Engaged Learning in ESL Teaching Contexts

(3). (EXPERIENTIAL). May be elected three times for credit.

EDUC 395 / AMCULT 361 / ELI 395 / LATINOAM 361 / LING 391 / RCSSCI 395. Principles and Practices of Teaching ESL in Migrant Communities

(3). (R&E). (EXPERIENTIAL). May be elected three times for credit.

EDUC 396 / AMCULT 362 / ELI 396 / LATINOAM 362 / LING 396 / RCSSCI 396. Migrant Community Outreach and ESL Teaching Practicum

ELI 395; completed with a minimum grade of C or better. (Prerequisites enforced at registration.) (2 - 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 485 / MATH 485. Mathematics for Elementary School Teachers and Supervisors

One year of high school algebra or permission of the instructor. (3). May not be repeated for credit. No credit granted to those who have completed or are enrolled in MATH 385.

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 / UC 110. Introduction to Information Studies

(4). (SS). May not be repeated for credit.

SI 301. Models of Social Information Processing

(Prerequisite: EECS 280) or (Co-requisite: SI 206); (C- or better). (Prerequisites enforced at registration.) EECS 280. May not be repeated for credit.

SI 400 / SURVMETH 605. Design and Implementation of Web Surveys

Not required however, SURVMETH 600, Fundamentals of Survey Methodology, will provide a treatment of survey error and survey mode in more depth than this course. May not be repeated for credit.

SI 410 / AMCULT 410 / DIGITAL 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 / EECS 595 / LING 541. Natural Language Processing

Senior standing. (3). (BS). May not be repeated for credit.

School of Kinesiology

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 Geology 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 155. Interdisciplinary Environmental Topics

(1 - 4). (ID). May be repeated for a maximum of 9 credits.

ENVIRON 167 / ANTHRIBIO 167. Evolution, Environment, and Global Health

(4). (NS). (BS). May not be repeated for credit.

ENVIRON 201 / RCNSCI 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. Sustainability and Society

(3). (SS). May not be repeated for credit.

ENVIRON 208 / ORGSTUDY 208. Business and the Natural Environment

(3). (SS). May not be repeated for credit.

ENVIRON 209 / AAS 261. Introduction to Political Ecology

(4). (SS). 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 201/GEOG 201/ENVIRON 209, EARTH/ENVIRON 202, or 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 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 290. Food: The Ecology, Economics, and Ethics of Growing and Eating

(3). (ID). May not be repeated for credit.

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 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. 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 324 / POLSCI 323. Introduction to Water Law and Policy

Previous course in Environment, Political Science, or Public Policy. (3). (SS). 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 326 / ARTDES 312. Green Building - Engagement

May not be repeated for credit.

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 GEOSCI 111 or 144 or EARTH 111 or 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 345 / POLSCI 331 / SOC 380. Environmental Public Opinion Analysis

One of the following: AP STATS 180, STATS 250, STATS 280, or SOC 210. (3). (SS). 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 / RCSSCI 350. 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 / ANTHRBIO 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 365. International Environmental Policy

(3). 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). (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). (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 377. Literature and the Environment

(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 / RCIDIV 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.

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 395. Public Lands & Natural Resource Law and Policy

Completed one introductory environment course (such as ENVIRON 101, 110, 111, or 201). (3). (SS). 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 405. Urban Sprawl: Policy and Politics

ENVIRON 350 or 370. (3). 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 417 / COMM 417. Marketing for Social Change

(3). May not be repeated for credit.

ENVIRON 419 / ORGSTUDY 419. Business, Sustainability, Diversity, Equity, and Inclusion

(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 431 / EARTH 431. Terrestrial Biomes Past, Present and Future

BIOLOGY 171, or one of EARTH (GEOSCI) 116, 119, 120, or 205/206; or Graduate standing. (Prerequisites enforced at registration.) (4). (BS). May not be repeated for credit. Rackham credit requires additional work.

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 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 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 461 / ANTHRIBIO 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 463. Topics in Environmental Natural Science

At least one environmentally related natural science course prior to this class. (1 - 4). (BS). 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 / ANTHRIBIO 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 479 / EARTH 477. Hydrogeology

MATH 116; and High school knowledge of PHYSICS, CHEMISTRY, and EARTH (GEOSCI) or equivalent. (4). (BS). May not be repeated for credit.

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 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

STATS 401, 403, or 425 or permission of instructor. (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 / CMPLXSYS 530. 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.

SPH Health Behavior and Health Education

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 250 / CMPLXSYS 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

Courses In Survey Methodology (SURVMETH)

SURVMETH 605 / SI 400. Design and Implementation of Web Surveys

Not required however, SURVMETH 600, Fundamentals of Survey Methodology, will provide a treatment of survey error and survey mode in more depth than this course. May not be repeated for credit.