



UNIVERSITY OF  
MICHIGAN

Fall 2017 Orientation  
Academic Year  
2017-2018

# Graduate Student Handbook

*Department of Molecular,  
Cellular & Developmental Biology*



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## First-Year MCDB Doctoral Students, Fall 2017

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Agrawal, Ritvija	ritvija@umich.edu	Devi Ahilya Vishwavidyalaya Madurai-Kamarj University	B.S. M.S.
Ahmed, Maria	ahmedmar@umich.edu	Lahore University	B.S.
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Slade, Hannah	hslade@umich.edu	University of Michigan - Flint	B.S.
Stewart, Richard	stewra@umich.edu	Fordham University	B.A.
Trombley, Jessica	jtromb@umich.edu	Univ. of Texas – San Antonio University of Michigan	B.S. M.S.
van den Goor, Lotte	lvdgoor@umich.edu	Loyola University - Chicago	B.S.
Venkatarangan, Varsha	imvarsha@umich.edu	Indian Inst. of Tech. – Madras	B.S./M.S.
Waller, Thomas	tjwater@umich.edu	University of Michigan	B.S.
Xiao, Yangbo	yangbox@umich.edu	Tsinghua University	B.S.

### PIBS MCDB Primary

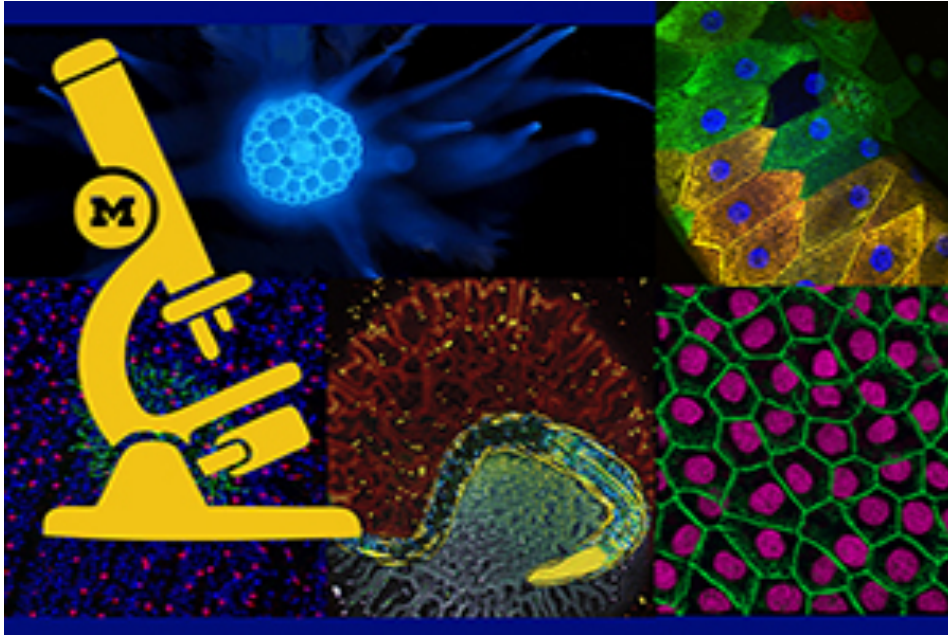
Koch, Lauren	kolauren@umich.edu	University of Arizona	B.S.
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## MCDB Doctoral Students, Fall 2017

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Mutlu, Nebibe	nmutlu@umich.edu	Kumar

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Stephenson, Rachel	restep@umich.edu	Miller
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Wang, Ce	cerwant@umich.edu	Xu
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Zhang, Weichao	zhangwe@umich.edu	Ming Li
Zhu, Yan	zhuyan@umich.edu	Schiefelbein



## MCDB Mentor Faculty

Name	Phone	Office	Uniqname	Research Area
Akaaboune, Mohammed	647-8512	3129 Nat. Sci.	makaabou	Neurobiology development; synaptic plasticity
Aton, Sara	615-1576	3126 Nat. Sci.	saton	Systems and sleep neurobiology, nervous system plasticity
Bardwell, Jim	764-8028	4003A Nat. Sci.	jbardwel	Protein folding
Buttitta, Laura	764-2802	3126 Nat. Sci.	buttitta	Cell cycle regulation in <i>Drosophila</i>
Cadigan, Ken	936-3246	3028D Nat. Sci.	cadigan	<i>Drosophila</i> development and signal transduction
Chang, Amy	647-7963	2116 Nat. Sci.	amychang	Yeast cell biology
Chapman, Matt	764-7592	2109 Nat. Sci.	chapmanm	Molecular physiology

Clark, Steve	647-4151	4124A Nat. Sci.	clarks	Development and signal transduction in <i>Arabidopsis</i>
Collins, Catherine	764-4363	3028B Nat. Sci.	collinca	Structural plasticity of neurons
Clowney, Eleanor "Josie"		3003 Nat Sci	jclowney	Neural circuits of the olfactory system of <i>Drosophila melanogaster</i>
Csankovszki, Gyorgyi	764-3412	3028A Nat. Sci.	gyorgyi	Dual roles of condensin complexes in <i>C. elegans</i>
Denver, Robert	936-6625	3065C Nat. Sci.	rdenver	Developmental neuroendocrinology
Duan, Bo	647-4359	4042 B Nat. Sci	bduan	Neural circuits underlying sensory modalities
Duan, Cunming	763-4710	3065B Nat. Sci	cduan	Molecular animal physiology
Dus, Monica	763-4511	3065A Nat. Sci	mdus	Response of the brain in regulating feeding behavior
Huffnagle, Gary	936-7934	6301 MSRBIII	ghuff	Microbiology and microbiomes
Hume, Rich	764-2071	3095C Nat. Sci.	rhume	Molecular and developmental neurobiology
Jakob, Ursula	615-1286	4041B Nat. Sci.	ujakob	Biochemistry and molecular cell biology
Klionsky, Dan	615-6556	6036 LSI	klionsky	Protein targeting
Kumar, Anuj	647-8060	4071D Nat. Sci	anujk	Functional genomics/proteomics in yeast and <i>C. albicans</i>
Kuwada, John	936-2842	3113A Nat. Sci.	kuwada	Molecular genetics of neurobiology
Kwon, Sam	<i>Arriving winter 2018</i>		samkwon	Cellular, molecular and circuit mechanisms underlying the plasticity in mammalian brain
Li, Jianming	763-4253	4071C Nat. Sci.	jian	Molecular physiology of <i>Arabidopsis</i>
Li, Ming	647-7264	4103 C Nat. Sci.	mlium	Regulation of lysosomal function and protein quality control
MacAlister, Cora	647-8384	4071B Nat. Sci.	macalist	Flower development and pollen tube formation
Maddock, Janine	736-8068	4033C Nat. Sci.	maddock	Microbial development



Miller, Ann	764-9721	4063A Nat. Sci.	annlm	Cytokinesis regulation by Rho small GTPases
Nandakumar, J.K.	647-9152	4140D Nat. Sci.	jknanda	Telomerase assembly/function
Nielsen, Erik	936-2977	3103A Nat. Sci.	nielsene	Proper deposition of plant cell wall components
Olsen, Laura	763-0976	4103C Nat. Sci.	ljo	Peroxisome proteases, proteomics
Pichersky, Eran	936-3522	4103D Nat. Sci.	lelx	Plant molecular biology and evolution
Schiefelbein, John	764-3580	4103B Nat. Sci.	schiefel	Molecular genetics of <i>Arabidopsis</i> development
Shafer, Orie	615-0610	3126 Nat. Sci.	oshafer	Neurobiology of circadian timekeeping & animal behavior
Simmons, Lyle	647-2016	3103A Nat. Sci.	lasimm	DNA repair, mutagenesis, and cell responses to DNA damage
Stockbridge, Randy	764-3631	3040 Chem	stockbr	Molecular mechanism of anion export
Vecchiarelli, Anthony	647-7251	2109 A Nat. Sci	ave	Mechanisms of subcellular organization
Wang, Yanzhuang	936-2134	2127A Nat. Sci.	yzwang	Molecular organization of Golgi apparatus
Wierzbicki, Andrzej	647-6841	3103A Nat. Sci.	wierzbic	Mechanisms of ncRNA function in transcriptional gene silencing
Wittkopp, Patricia	763-1548	1061B Nat. Sci.	wittkopp	Evolution of development / gene regulation
Wong, Kwoon	936-9547	326 Kellogg	kwoon	Regulation of non-image forming visual responses
Xu, Haoxing	615-2845	3089 Nat. Sci.	haoxingx	Sensory neurobiology and integrative physiology

## Graduate Academic Affairs

Academic affairs of the MCDB graduate program fall to two standing committees: the Admissions Committee and the Graduate Studies Committee. The goal of these two committees is to provide an environment that is conducive to students becoming productive scientists and thoughtful human beings.

### Admissions Committee

The Admissions Committee is responsible for reviewing all applications to the program and subsequently recommending admissions offers. This committee is also involved in the recruiting process, both externally and internally.

#### Members

Matt Chapman, Professor – Co-Chair  
Haoxing Xu, Professor – Co-Chair  
Cora MacAlister, Assistant Professor  
Janine Maddock, Professor  
Ann Miller, Assistant Professor  
Randy Stockbridge, Assistant Professor  
Ming Li, Assistant Professor  
Anthony Vecchiarelli, Assistant Professor  
Allison Box, Graduate Student Rep  
Jenna Clem, Graduate Student Rep  
Shyama Nandakumar, Graduate Student Rep

### Graduate Studies Committee

The Graduate Studies Committee (GSC) is responsible for supporting the graduate students by monitoring the year round issues that occur in the graduate program, including preliminary examinations, orientation, internal awards, and individual concerns that may arise.

#### Members

Lyle Simmons, Chair  
Catherine Collins, Associate Professor  
Cunming Duan, Professor  
Ursula Jakob, Professor  
Jianming Li, Professor  
Eran Pichersky, Professor  
Laura Olsen, Professor – Masters and Pathways program  
Aravin Ramakrishnan, Graduate Student Rep

## Standards of Conduct

*Graduate students are responsible for being familiar with and are held accountable to the standards in all applicable University policies.* These policies are available online at:  
<http://www.rackham.umich.edu/current-students/policies/academic-policies>.

The information can also be downloaded as a pdf at:  
<http://www.rackham.umich.edu/downloads/academic-policies-20100818.pdf>

All Rackham students should review this information.

The following discussion covers additional policies that apply to Rackham students that are not covered in The Guide.

A clear sense of academic honesty and responsibility is fundamental to our scholarly community. To that end, the University of Michigan expects its students to demonstrate honesty and integrity in all their academic activities. Furthermore, students pursuing graduate education are being educated not only in a substantive field of inquiry but also in a profession. Although there are many common values, specific standards required of professionals vary by discipline, and this policy document has been written with respect for those differences.

As professionals in training, graduate students assume various roles, depending on the academic program. These include the roles of scholar/researcher, teacher, supervisor of employees, representative to the public (of the University, the discipline and/or the profession), and professional colleague and even the role of provider of services to clients. Therefore, students are responsible for maintaining high standards of conduct while engaged in course work, research, dissertation or thesis preparation, and other activities related to academics and their profession. Because students take on multiple roles in multiple settings, some types of conduct are both academic and professional in nature—hence, the inclusive nature of this policy.

Graduate training, like future professional life, includes demands that might tempt some students to violate integrity standards. There are pressures on graduate students to achieve high grades, obtain financial support, meet research or publication deadlines, gain recognition from the scholarly community, and secure employment. Although faculty members can help students to maintain academic integrity despite these pressures, each student has final responsibility for maintaining integrity in his or her individual conduct.

Finally, conduct that violates the ethical or legal standards of the University community or of one's program or field of specialization may result in serious consequences, including immediate disciplinary action and future professional disrepute. In support of the Graduate School's commitment to maintain high standards of integrity, this policy makes provisions for bringing forward and hearing cases of academic and professional misconduct.

## Fall 2017 & Winter 2018 Academic Calendar • Ann Arbor Campus

- **Fall 2017 Academic Calendar:**  
<http://ro.umich.edu/calendar/fa17.php>
- **Winter 2018 Academic Calendar:**  
<http://ro.umich.edu/calendar/wn18.php>

### Registration Appointments

Your registration appointment is the earliest date and time you can enroll for the term. You may not register prior to the date and time of your appointment.

Wolverine Access is an online system that allows you to enroll from anywhere you can access the Internet. Prior to your registration appointment, the system will take you to your Backpack. Once the date and time of your appointment pass, the Backpack/Registration link will take you to Registration. Note that you can register for classes without first putting classes in your Backpack.

After registering for your classes, you may make modification to your class schedule at any time using Wolverine Access until the third week of the term (drop/add deadline).

Information about student registration and deadlines may be found on the Rackham website at:  
<http://www.rackham.umich.edu/current-students/life-at-michigan/resources-for-graduate-students/registering-for-classes>

### Independent Study Courses

Before you may register for a course that requires faculty permission, you must be sure that the instructor has contacted Mary Carr ([carrmm@umich.edu](mailto:carrmm@umich.edu)) in the MCDB Office for an override. You must then go to Wolverine Access and register for the course.

### Program Credit Requirements

**Credit System:** Most courses at Michigan meet for one term and are given a value of three or four credit hours. Credit hours reflect the number of hours a student attends lectures each week during a four-month term. A course with three hours of lecture plus a discussion segment generally receives four-credit hours.

**Rackham Requirements for Candidacy:** The Graduate School requires that you successfully complete a total 18 credit hours before being advanced to candidacy. In addition, 4 of these 18 credit hours MUST be in a cognate field (i.e. Human Genetics, Biochemistry, etc.). See the “Cognates” section below.



## Requirements for Graduate Students in MCDB

### Focus:

The members of the Department of MCDB are broadly interested in how organisms, cells, molecules, and genomes function, develop, and evolve. Despite the diversity of research in our department, MCDB faculty members share technical approaches such as recombinant DNA, genetics, biochemistry, and specialized approaches in imaging. Collectively, our faculty also shares a common intellectual approach that emphasizes mechanistic and experimental strategies to investigate a diverse set of biological problems.

### Mentorship:

The Graduate Studies Committee (GSC) of MCDB will advise each pre-candidate student with respect to courses, teaching, and laboratory rotations. The GSC will evaluate pre-candidate student progress until the student has identified a faculty member as a research mentor. At that time the research mentor, along with the GSC, will advise the pre-candidate student.

The earliest date that a faculty member can extend an offer of a position in the faculty's laboratory to a rotating student is **April 15th** of the student's first academic year. The earliest date that a rotating student can request a position in a given laboratory is **April 15th** of that student's first academic year.

### Research and Research Rotations:

The major activity for a PhD student is to complete a substantial body of scholarly research and to describe this research in the doctoral thesis. This research is carried out under the supervision of a research mentor (the PhD advisor) and typically requires 4-5 years of time.

To assist students in identifying a research mentor, MCDB students are required to conduct at least two research rotations with MCDB faculty members during their first year. [Note: Certain students ("direct admits") are admitted directly into an MCDB lab and are not required to conduct rotations.] Research rotations are lab research experiences undertaken as part of the MCDB 700 course (for MCDB students) or the PIBS 600 course (for Program in Biomedical Science (PIBS) students). Rotations are arranged by the individual MCDB graduate students, based on their own research interests and goals, through discussions with their prospective rotation mentors. Typically, students perform one or two rotations per semester. If an MCDB student is rotating in more than one lab during a semester, he/she should register for MCDB 700 with each faculty member. Students admitted via PIBS who have designated MCDB as their primary choice will follow the PIBS rules and guidelines regarding research rotations during their first year and should register for PIBS 600.

The rotation mentors and research advisors take an active role in the student's education and training toward becoming an independent investigator. In addition to technical training in the laboratory, the rotation includes training on formulation of a research plan, analytical and critical interpretation of the student's research results, critical analysis of reports in the literature, and oral and written presentation of scientific materials. The rotation mentor evaluates and grades the performance of the students, and these evaluations are placed in the student's file.

### Responsible Conduct of Research:

As federally mandated, students will receive training in the responsible conduct of research during their first semester in the MCDB program, typically through the PIBS 503 (or UC 415) course. This training encompasses a mixture of podcasts, online training, panel discussions, informal debates, and small group meetings. The course meets for two hours per week (12 hours total).



**Courses:**

MCDB students (but not PIBS students) take the following MCDB courses: MCDB 614, MCDB 615, and MCDB 800, which are described in greater detail later in this document. Students may also elect to take additional courses that are appropriate for their goals and interests, in consultation with their mentors.

**Cognate Courses:**

In addition to MCDB courses, students take courses offered by other UM departments. This is a requirement of the Rackham Graduate School, which recognizes the value of intellectual breadth in graduate education that is provided in part by formal coursework in fields of inquiry that lie outside the boundaries of the student's field of study. Students are required to satisfactorily complete (with a grade of B- or better) a minimum of 4 credit hours of graduate-level work in a field or fields other than the student's field of specialization before being advanced to Candidacy (i.e. Human Genetics 541, Cell Biology 530, etc.). The PIBS 503 course described above is counted as a one-credit cognate course towards this requirement.

If a student has completed graduate coursework elsewhere that may be considered as a cognate course, he/she may request that the course be considered a cognate "in spirit." The MCDB Graduate Coordinator can provide further details as needed. A cognate in spirit may not be used to meet minimum credit hour requirements toward the doctorate.

## Molecular, Cellular, and Developmental Biology

### GENERAL TIMETABLE TO Ph.D. CONFERRAL

MILESTONE	NORMALLY COMPLETED BY:
<b>Pre-candidate</b>	
18 credit hours of course work	End of first academic year
Lab rotations – minimum of 2; additional rotations are possible	April 15 <sup>th</sup> of the first academic year; May 30 <sup>th</sup> if pursuing additional rotations
Select permanent lab and mentor	May 30
Complete preliminary examination - <b>Checkpoint 1</b>	End of first academic year
<b>Candidate</b>	
Advance to candidacy	Beginning of second academic year
Form thesis committee	December 1st of second academic year
Hold first thesis committee meeting	Second semester, or summer of second academic year
Dissertation Evaluation – <b>Checkpoint 2</b>	
Hold subsequent thesis committee meetings	At least once each academic year; more often as determined by committee

*This guide outlines important milestones towards completion of the Ph.D. degree.*

## First-Year Students: Academic Issues

### Course requirements

The typical student will take the following sequence of courses. Any deviation from this course sequence must be approved by the Graduate Studies Committee in advance. It is expected that all students will maintain a 3.0 GPA, which is a “B” average, and will not receive less than a B- in any given course.

### Year 1, Fall Term

- **PIBS 503:** MCDB students and MCDB primary PIBS students will take PIBS 503, which covers issues in research ethics. PIBS 503 is a one-credit course and counts towards the requirement for four cognate credits.
- **MCDB 614:** This 3-credit course introduces beginning Ph.D. students to the research and the model organisms widely used in molecular, cellular and developmental biology. It also emphasizes appropriate experimental design and strategies, and it aims to help students learn to effectively read and critically evaluate research papers.
- **ONE** of the following four courses: Biological Chemistry 550 (Protein Structure), Cell and Developmental Biology 530 (Cell Biology), Human Genetics 541 (Gene Structure), or Neuroscience 611, 612, and/or 613 (1 credit each). This serves to fulfill the 3 additional cognate credits needed to advance to candidacy.
- **MCDB 800:** Weekly Department Seminars. This one-hour seminar series includes speakers from other institutions and helps students broaden their understanding of MCDB research. Attendance is mandatory for all first-year students and highly recommended for second year students. An attendance sheet is kept to verify compliance.
- **Research Rotation:** Students will complete one (full) or two (half) research rotations in the Fall term \*.

### Year 1, Winter Term

- **Research Rotation:** Students will complete one (full) or two (half) rotations in the Winter term\*. Students should select a permanent mentor by April 15, unless they are completing a Spring rotation, in which case the permanent lab should be selected by May 30.
- **Other Courses:** Appropriate specialty courses decided upon by the student in consultation with the advisory faculty can be taken during any term other than Term 1 of the first year. In the Winter Term of Year 1, it is recommended that the student enroll in a paper reading or “journal club” course, to assist them in preparing for the Checkpoint 1 Preliminary Exam.
- **MCDB 800:** Weekly Department Seminars. Attendance is mandatory for all first-year students and highly recommended for second-year students. An attendance sheet will be kept to verify compliance.

\* Waived for students admitted directly into an MCDB lab.



### **MCDB Department Retreat**

Each year, the Department holds a one-day research retreat designed to enhance interactions among the faculty, postdoctoral scientists, and graduate students. First-year graduate students are expected to attend this retreat to help them become familiar with the research and the personnel in the Department. This year, the MCDB Retreat will be held on Monday October 17, 2016.

### **Preliminary Examination (Checkpoint 1)**

To demonstrate that they are qualified to proceed in the PhD program, first-year MCDB students are given a preliminary examination at the end of the Winter term. This is a three-hour written examination based on primary research articles that are distributed in advance. Students are expected to read and understand the material in the research papers, including the background and experimental methods. The preliminary exam is administered and graded by the members of the Graduate Studies Committee.

### **Candidacy:**

The Graduate Studies Committee of MCDB determines whether to recommend students for advancement to candidacy. This decision is based upon the performance of the students in the preliminary exam (Checkpoint 1), their individual research rotations, their course work, and their performance as a GSI, if applicable. The Graduate Studies Committee will file a report of its recommendations for discussion by the full faculty of MCDB. Said report will be forwarded to the Chair of the MCDB Department for final action, which would normally lead to candidate status being awarded, beginning in the Fall Term of the second year.

A Candidacy Certificate will be issued when it is determined that the student has completed all requirements for the doctorate except for the dissertation. In addition, the combined Department and Rackham requirements for Candidacy include:

- Submission of an official undergraduate transcript with the degree posted
- Satisfactory completion of any course deficiencies (prerequisites to program)
- Completion of all required graduate coursework (other than 995)
- Completion of at least 4 hours of cognate coursework
- A minimum GPA of 3.0 ("B" average)

### **Individual Development Plan (IDP)**

To facilitate extensive and open communication between mentor faculty and students, first-year MCDB students will complete an Individual Development Plan (IDP). The IDP is intended to track student accomplishments, goals, and performance during the year, with direct feedback and input from mentor faculty. Students will initially complete the IDP form in late April of their first year in the MCDB doctoral program, together with their chosen research mentor. The IDP is intended to be updated and modified yearly, requiring input from both the student, mentor, and thesis committee. Completed IDP forms will be sent to the MCDB Graduate Coordinator and will be kept in confidence. IDPs must be updated yearly in order for students to remain in good academic standing.

## First-Year Students: Financial Issues

### STIPEND

First-year Ph.D. students are appointed to Department Fellowships. Contact the Department for 2017-18 amounts. As Fellowship recipients, students are not considered to be employees of the University and therefore the pay dates will differ from University employees. For this academic year the pay dates for Ph.D. students will be:

<u>2017</u>	<u>2018</u>	
9/25/17	1/22/18	5/14/18
10/23/17	2/20/18	6/11/18
11/20/17	3/19/18	7/16/18
12/15/17	4/17/18	8/13/18

As Fellowship recipients, Ph.D. students will not have income taxes withheld from their paychecks. This means that students will be responsible for paying these taxes when they file their annual Income Tax in April. To avoid additional fees, *students should plan to pay estimated taxes during the year*. Consult the University of Michigan Payroll Office website for information on taxation and estimated tax payments. Visit: <http://www.finance.umich.edu/finops/payroll/>. Information for international students is at: <http://www.finance.umich.edu/finops/payroll/foreign>.

### DIRECT DEPOSIT

Most students opt to have their paycheck funds deposited directly into their bank account. Please see the payroll website to apply online for this direct deposit service.

### HEALTH CARE

Enrollment forms for health care coverage are available online. Please see the University of Michigan Benefits Office website to provide/submit the necessary information as soon as possible.

### OFF CAMPUS NOTICE

If you plan to leave campus for more than 48 hours during a work week, please notify the Graduate Studies Committee prior to your departure. This will provide us with your contact information in case of an emergency.

## Second-Year Students

### ACADEMIC ISSUES

#### Course requirement

MCDB 615: This course is offered in the Fall Term and is intended for second-year students. It trains students in the preparation of research proposals and the appropriate design of experiments. A principal focus is to prepare students for their Dissertation Evaluation (Checkpoint 2), which they typically will take in the Winter Semester of their second year.

#### Teaching

Each student is required to serve as a Graduate Student Instructor (Teaching Assistant) for two semesters prior to receipt of a Ph.D. degree. Typically, students serve as a GSI for one term in year 2 and then another term after the 2nd year. MCDB 801-Supervised Teaching: Graduate student instructors who are teaching for the first time are required to take this course.

#### Dissertation Evaluation (Checkpoint 2)

Second-year students, in consultation with their thesis mentor, will decide on the composition of their dissertation committee (consistent with Rackham requirements). The student will submit the dissertation committee membership form within three months after advancement to candidacy, usually by the end of November of the second year. The first meeting of the student's dissertation committee will be a dissertation evaluation (Checkpoint 2), designed to assess the student's progress in the PhD program and determine whether they are qualified to proceed in the program. This meeting is to occur within 6-9 months after advancement to candidacy (typically, March-June of the second year). Students are expected to prepare for the dissertation evaluation throughout years 1 and 2 by reading primary literature, discussing scientific issues with mentors/colleagues, engaging in appropriate coursework, and by performing relevant laboratory research. In advance of the dissertation evaluation, the student will prepare and submit a dissertation proposal to the members of their dissertation committee. Immediately before the dissertation evaluation meeting, the student will present a public talk that describes the background, preliminary research findings, and major future aims of their proposed thesis project. At the dissertation evaluation, the committee members will examine the student's knowledge of the proposal topic and their ability to defend their central hypothesis and aims. Students who pass the Checkpoint 2 will receive approval from their dissertation committee to continue with their dissertation research.

#### Financial Issues

Second-year students are employees of the University and as such, the paydays will fall on the last working day of the month. Typically, second-year students teach and serve as graduate student instructors (GSIs) in the Fall semester and are GSRA's (Graduate Student Research Assistants) in the Winter semester. It is important that second-year students teach in one semester of the second year.

#### Health Care

As a GSI or GSRA, students are eligible for health care coverage. You must complete the appropriate forms to choose a plan and initiate coverage. If you do not complete the forms, selection will default to no coverage. Contact the Graduate Coordinator with questions.

## Students Beyond the Second Year

### Annual Committee Meetings

Annual meetings of the thesis committee are mandatory for all doctoral students in their third year and beyond. At the meeting, the committee chair and/or co-chairs must summarize the student's progress on the Dissertation Committee Meeting Form (obtained prior to the meeting from the Graduate Coordinator) and the student must sign the form indicating that he/she has reviewed their comments. The form must then be submitted to the Graduate Coordinator. The Dissertation Committee will be responsible for reporting to the Graduate Affairs Committee whether the student is making satisfactory progress toward completing the Ph.D.

### Research Presentation

MCDB Doctoral students are required to make at least one oral presentation of their research (aside from the dissertation defense seminar) to a broad audience at some point during their time as a PhD student. This requirement is normally satisfied by a public talk given by the student immediately prior to their dissertation evaluation in Year 2, but it may also be satisfied by giving a research talk at a scientific conference, at the annual Departmental retreat, in a multi-lab research club, or another academic venue, but it cannot be satisfied by giving a lab meeting talk.

### Travel to Scientific Meetings

The MCDB Program encourages students to participate in the discussion and dissemination of recent research findings through attendance at local, regional, and national scientific meetings. The MCDB Program provides a contribution of up to \$500 per academic year for second, third, fourth, and fifth year students for student travel to these meetings. Request forms for this money can be obtained from the Graduate Coordinator's office. Students must present a poster or research talk at the meeting and must request these funds prior to the meeting. Receipts are to be submitted through the CONCUR system within 15 days of returning from the meeting.

### Defense of Dissertation

Upon completion of research, students write a dissertation in accordance with the requirements of the Graduate School. Once the dissertation is read and approved by the committee members, the student must present an oral defense of the dissertation. It is a policy of the Graduate School that dissertations be published. The Dissertation Handbook is available from the Office of Academic Records and Dissertations in Rackham outlines guidelines for preparing and submitting the dissertation.

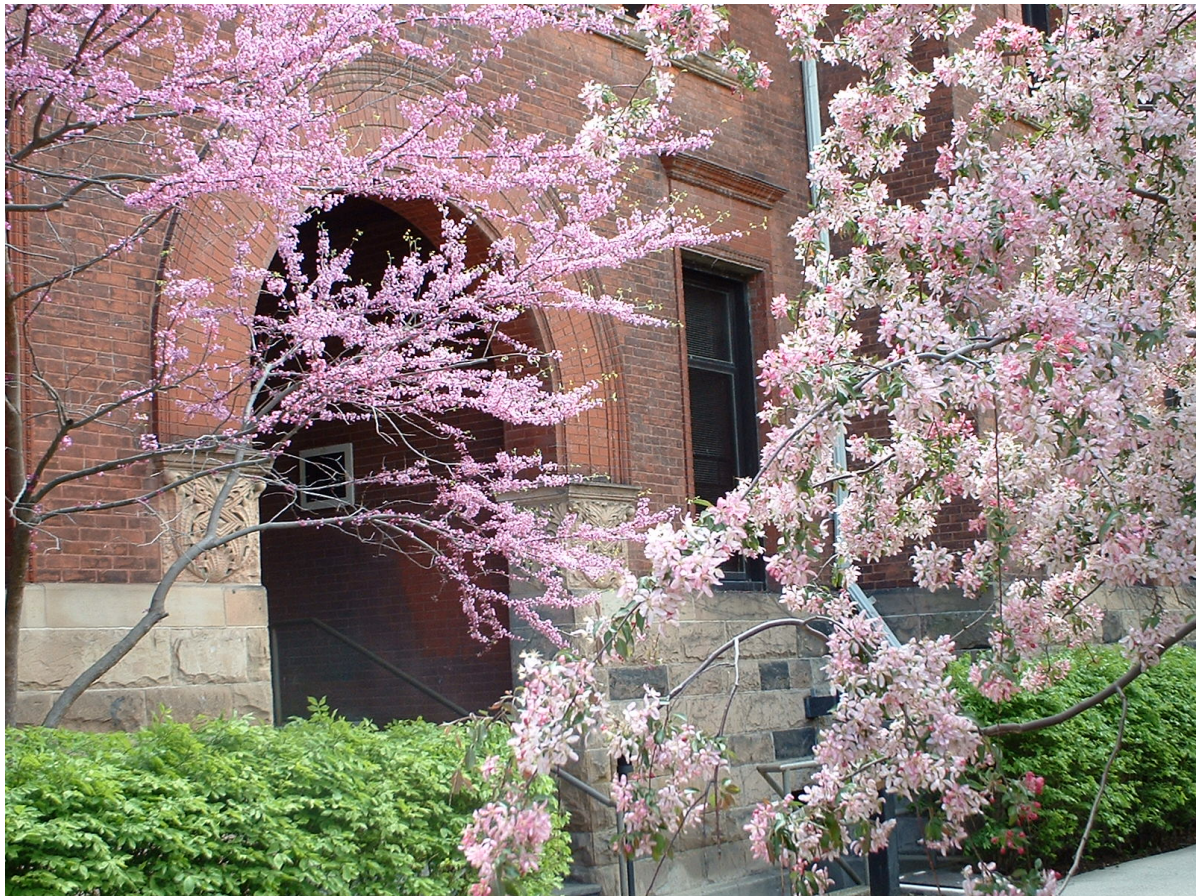
### Seven-Year Limit

The general progress of individual students in graduate work is monitored annually by the Graduate Studies Committee. A student must complete all doctoral work within seven consecutive years from the date of first enrollment in the Rackham degree program.



## Augmented Candidacy Enrollment ("Free Course")

Once you have achieved Candidacy, you may elect one "free" course per full term without paying additional tuition. This course may be elected with either a full term or a half term of MCDB 995 enrollment. For the spring/summer term, this means you may elect either one course for the spring half or summer half, or one course for the full spring/summer term. These "free" courses may be elected for credit or for a "visit." If you do not elect a "free" course during a term of MCDB 995 enrollment, you may "bank" the "free" course, then select two "free" courses during a subsequent term of MCDB 995 enrollment. A "banked" course must be used concurrently with a MCDB 995 enrollment, and only one course may be "banked" at any given time (i.e., no more than 2 "free" courses can be taken during any given term). Courses may not be elected in anticipation of future "banking" (i.e., you cannot elect two "free" courses in one term, planning to take none the following term). When you take a "banked" course, you will initially be assessed tuition for that course. This fee will be adjusted after the Registrar's Office reviews your record to ensure that you have met all the requirements for "banking" the free course. With the exception of a "banked" course, if you elect more than one course with MCDB 995 enrollment you will be assessed the appropriate tuition per credit hour for that and any other course. As stipulated in the GEO contract, students with at least a .25 Graduate Student Instructor (GSI) or Graduate Student Staff Assistant (GSSA) appointment receive a full tuition waiver regardless of candidacy status and have no limitation on the number of courses taken in the term of appointment. The appointing department is responsible for the coverage of fees. Students with Graduate Student Research Assistant (GSRA) appointments should check with their appointing department/program about coverage of fees for any additional courses taken.



## The Dissertation Committee

The Dissertation Committee is charged with the supervision of a Candidate's dissertation activities. It should guide and encourage the student in the design and execution of the research program and in the writing of the dissertation. Committee members must file evaluations of the dissertation and certify if the student has passed the oral examination, and has produced a dissertation that is satisfactory in every way.

The student chooses a chair or co-chairs that will act as the primary director of the student's research. Together they choose other faculty who may be expected to supply a high degree of expertise in the special area of the dissertation, and whose appointment will satisfy the following requirements.

All Dissertation Committees must consist of at least four (4) members. At least two of the Committee members in addition to the chair must be regular members from the Department of Molecular, Cellular, and Developmental Biology. Overall, each Committee must have

1. a chair or two co-chairs;
2. an outside member who is a regular member of the Graduate Faculty in a Rackham doctoral program, who is familiar with the standards for doctoral research, and who, preferably, holds an appointment in a collateral or related field; and
3. a minimum of three regular members of the Rackham Graduate Faculty.

Memberships on Dissertation Committees are of two types, regular and special as described below.

### Regular

Regular member of the graduate faculty: A regular member of the Rackham Graduate Faculty is any person holding an unmodified appointment at the University of Michigan as Professor, or Associate Professor, or Assistant Professor with an earned doctorate from an accredited institution. (This means Visiting Professors, Adjunct Professors, etc., cannot serve as regular members of a Dissertation Committee).

Instructors, lecturers, and primary research scientists who do not hold an appointment as a member of the regular faculty may serve on the Dissertation Committee provided that they possess an earned doctorate from an accredited institution. They may serve as co-chair if the other co-chair is a regular member of the graduate faculty who is affiliated with a Rackham doctoral program. However, they may not serve as a sole chair or as the outside member of the Committee, with the exception of some primary research staff. For more information, see "Guidelines for Dissertation Committee Formation" at <http://www.rackham.umich.edu/current-students/dissertation/committees>.

Emeritus Professors may serve as co-chair of a Dissertation Committee; they may also serve as sole chair or cognate member by special arrangement (i.e., the completed Dissertation Committee Form must be accompanied by a memorandum, signed by the faculty member's Chair and by the Dean of his/her school or college, requesting the appointment and affirming the professor's experience in teaching, advising, and dissertation committee service). They may not serve as the outside member of a Committee unless that appointment was made prior to retirement. For further information, see the online Guidelines at <http://www.rackham.umich.edu/current-students/dissertation/committees/guidelines-dissertation-committee-service>

Outside Members: The outside member of a Dissertation Committee represents all other Rackham doctoral programs and as such must be a regular member of the Graduate Faculty. The presence of an outside member on a Committee provides an opportunity for the doctoral student to have the advantages of both diversity of outlook among his/her committee members and breadth of expertise.

In certain cases it may be possible to have faculty of the Department of Molecular, Cellular and Developmental Biology serve as an outside member of the Departmental Dissertation Committee. Such an appointment must be approved by Rackham and meet the following requirements:

He or she shall not be a primary affiliate of either the group in the Department with which the Chairman of the Dissertation Committee is primarily affiliated or that in which the student qualifies.

The subject of the research interests and expertise of the outside member shall differ in one or both of the following ways from the dissertation topic of the graduate student for which the Dissertation Committee is appointed.

- in the biological kingdom with which it deals, (animals, protistans, plants, etc.), and/or
- in the level of biological organization (e.g. molecular, organismic, population, etc.) with which it is concerned.

### **Special**

University faculty and staff who do not fall into any of the classes cited above and qualified people from outside the University of Michigan whose service on a Dissertation Committee would contribute significantly may be nominated for *special* membership. (For further information, see the online "Guidelines" noted above).

The nomination of a person to serve on a specific Dissertation Committee is made on the Dissertation Committee Form.

The nominee's expertise in the dissertation topic must be detailed. A curriculum vita should be included if possible.

A Special Member need not be employed by The University of Michigan and need not hold an academic appointment.

No person working toward a graduate degree may serve on a committee until all requirements for his or her degree have been met.

A great deal of helpful information and printable forms are available on the Rackham website under Current Students. <http://www.rackham.umich.edu/current-students/dissertation>.



## Dissertation Preparation

Prepared dissertations will be expected to conform to current guidelines established by the Rackham Graduate School. Rackham offers explicit formatting guidelines for the dissertation and abstract and other helpful information on the Rackham website (<http://www.rackham.umich.edu/current-students/dissertation/the-dissertation>.) The Rackham Graduate School requires that every doctoral dissertation and abstract be published. Students will sign an agreement to this end to make the dissertation available in print and online. If desired, dissertations may be embargoed for a period of time; please check the Rackham Dissertation resources at the URL above for guidelines

We do not seek to reproduce these guidelines here, but it is particularly important to bear in mind the following point regarding the inclusion of published work in the dissertation and copyright.

### Use of Copyrighted Materials in Your Dissertation

Students are required to receive written permission from the copyright owner for any material used in the dissertation that falls outside the guidelines of “fair use,” and are responsible for full compliance with proper use of copyrighted material. Availability of materials on the internet does not change copyright status. Copyright law protects original works of authorship in any medium of expression and including: long quotations from pre-existing materials; reproduced publications even if you are the author of the original work; unpublished materials; poetry and music lyrics; dialogue from a play, screenplay, broadcast, or novel; music; graphic or pictorial works; computer software; and sources on the internet.

For information about copyrighted material and fair use, see:

[http://www.umi.com/assets/downloads/products/UMI\\_CopyrightGuide.pdf](http://www.umi.com/assets/downloads/products/UMI_CopyrightGuide.pdf)

University of Michigan Copyright Information is provided at:

<http://www.copyright.umich.edu>.

Students should retain full documentation of every instance for which they have received permission to use copyrighted material.



## Mentoring Procedures and Policies

The Department has implemented several practices and policies to promote effective mentoring of graduate students throughout the doctoral study period. As a group, graduate students will meet annually with the departmental Chair of Graduate Studies in cohort sessions. These cohort meetings provide an excellent opportunity to address important issues (timelines and goals for the academic year) relevant to each group of students. The cohort meetings will also be used to assist in the voluntary selection of graduate students for participation in Departmental committees.

These group mentoring sessions are augmented by extensive individual mentoring from your selected thesis advisor. The Individual Development Plan (IDP) is further intended to foster open and productive lines of communication between the mentor and student. Opportunities for annual feedback from your thesis committee are built into your doctoral studies through yearly thesis committee meetings, as well as through the IDP. Your most valuable and most frequent form of mentoring will occur individually between you and your thesis advisor. While we cannot suggest any single format or guide for this type of mentoring, we do offer the following suggested discussion topics to aid in this process. The mentoring topics presented on the following pages are intended strictly as samples to facilitate effective communication between you and your thesis mentor. The text provided below is in no way intended to constitute a rigid document or agreement, but rather a listing of relevant topics of discussion between student and mentor.

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## Possible Topics to Discuss/Plan Between Mentor and Student

(adapted from forms developed by the Institute for Health Policy Studies/Institute for Health and Aging Fellowship Program)

Below are some potential topics for discussion between the graduate student and the faculty mentor/research advisor to facilitate open communication regarding the structure of the working relationship during the student's tenure in the laboratory. We hope that these discussions can lead to an interactive and effective understanding between students and mentors.

1. **Frequency of student/mentor one-on-one meetings.** For many students, it is beneficial to schedule regular meetings: *(for example, weekly on Wednesdays, or 1st and 3rd Thursdays, etc.)*
2. **Frequency of student participation in group meetings (if relevant).** It may be useful to plan in advance the frequency with which students will participate in ongoing research or policy group meetings.
3. **Identification of professional meeting(s) beneficial for the student.**
4. **Tentative topics for papers on which the student will be an author:** *(discuss topics and likely order of student's authorship, e.g., first, second, etc.)*
5. **Student's role on each project.** *(discuss his/her primary areas of responsibility, such as overseeing analyses, performing analyses, helping conceptualize study, working with technician to conduct analysis of particular research question, interviewing, drafting a manuscript, etc.)*
6. **Other areas:** *(discuss other areas of the joint working relationship, including issues regarding the student's schedule, student absences, and any unusual arrangements regarding the provision of computer equipment, space, or other resources; etc.)*

## Best Practices and Commitments for Graduate Students

(Modified from original documents by the Graduate Research, Education, and Training (GREAT) group of the AAMC)

### Graduate Student Commitments

**I acknowledge that I have the primary responsibility for the successful completion of my degree.** I will be committed to my graduate education and will demonstrate this by my efforts in the classroom and in research settings. I will maintain a high level of professionalism, self-motivation, engagement, curiosity, and ethical standards.

**I will meet regularly with my research advisor and provide him/her with updates on the progress and results of my activities and experiments.**

**I will work with my research advisor to develop a thesis/dissertation project.** This will include establishing a timeline for each phase of my work. I will strive to meet the established deadlines.

**I will work with my research advisor to select a thesis/dissertation committee.** I will commit to meeting with this committee at least annually (or more frequently, according to program guidelines). I will be responsive to the advice of and constructive criticism from my committee.

**I will be knowledgeable of the policies and requirements of my graduate program, graduate school, and institution.** I will commit to meeting these requirements, including teaching responsibilities.

**I will attend and participate in relevant group meetings and seminars that are part of my educational program.**

**I will comply with all institutional policies, including academic program milestones.** I will comply with both the letter and spirit of all institutional research policies (e.g., safe laboratory practices and policies regarding animal-use and human-research) at my institution.

**I will participate in my institution's Responsible Conduct of Research Training Program and practice those guidelines in conducting my thesis/dissertation research.**

**I will be a good research citizen.** I will agree to take part in relevant shared research group responsibilities and will use research resources carefully and frugally. I will be attentive to issues of safety and courtesy, and will be respectful of, tolerant of, and work collegially with all research personnel.

**I will discuss policies on work hours, sick leave and vacation with my research advisor.** I will consult with my advisor and notify any fellow research group members in advance of any planned absences.

**I will discuss policies on authorship and attendance at professional meetings with my research advisor.** I will work with my advisor to submit all relevant research results that are ready for publication in a timely manner.



## Policies on Student Employment and Absences

### STUDENT EMPLOYMENT OUTSIDE THE PROGRAM

MCDB follows the standard NIH policy that Ph.D. students may not be employed outside their training program. MCDB faculty believe that Ph.D. training is a full-time endeavor. Outside employment subtracts from the time and mental energy students are able to devote to their research. No student in the MCDB Program may be employed outside the Program without permission of both the mentor and the Graduate Studies Committee.

### VACATION, ABSENCES OR LEAVES

Participation in the MCDB Program, without regard to the source of financial support, is to be full time; that is 12 months per year. Participation includes regularly scheduled Program events and registration in the graduate school for relevant course work, directed research, and dissertation research. Other relevant activity such as detached study, or other off-campus course work or research may be taken with the approval of the Graduate Studies Committee (for pre-candidates) and the student's research mentor (for both pre-candidates and candidates). Any other activity is viewed as personal and may be undertaken subject to the following policy covering vacations and leaves.

#### VACATIONS

Graduate students are entitled to University-designated holidays. Additionally, subject to the discretion and explicit approval of the Graduate Studies Committee, first-year students may take up to two more weeks in the summer when they are supported by MCDB department funds. Prearranged total vacation time is NOT TO EXCEED 4 weeks per year, including all University breaks and approved vacations. First-year students must consult with the Chair of the GSC **before** making any travel arrangements. In particular, DO NOT purchase any travel tickets without prior consultation with the GSC Chair.

Once supported by their research mentor, students are allowed vacation time that includes University-designated holidays and up to two weeks of additional time. Prearranged total vacation time is NOT TO EXCEED 4 weeks per year, including all University breaks and mentor-approved vacations. The timing must be **discussed with the mentor prior** to making any travel arrangements. In particular, DO NOT purchase any travel tickets without prior consultation with your mentor.

If necessary and under unusual circumstances, it is possible to take total vacation time in excess of 4 weeks per year. However, this requires a written request and approval from the student's mentor and the Chair of the GSC. This may be granted without financial support.

#### LEAVES: (excerpted from Rackham Policies 3.2.2 Leaves of Absence for PhD Students)

Events may occur that make it necessary for a student pursuing a PhD to interrupt his or her progress toward a degree. Since students in PhD programs are required to be continuously enrolled, they may ask for a temporary leave of absence when certain life events make impossible continued active participation in the degree program. A leave of absence enables a student to not register during a fall or winter term and remain in compliance with the continuous enrollment requirement. A leave will be granted to students for illness or injury, to provide care or assistance for family and dependents, to meet military service obligations, or for other personal reasons.

A student on a Rackham-approved leave of absence suspends progress toward the PhD degree for a minimum of one fall or winter term. No tuition and fees are charged for the period during which a student is on a leave of absence. A leave of absence may have implications for a student's federal financial

aid and loans. Students should consult with the Office of Financial Aid to determine how a leave status might affect their aid and eligibility to defer loan repayment. Students on leave do not have the benefits of registered status, however, and may not use University facilities or services normally available to registered students, including the use of laboratories, equipment, and other research facilities. Students on leave may not use the services of faculty or administrative staff except for planning the transition back to registered status.

A student is strongly encouraged to discuss the impact of a leave on the plan of study with the chair or director of graduate studies and the faculty advisor and develop a strategy for completing the degree program. A student is strongly encouraged to talk with the chair or director of graduate studies and the faculty advisor about alternatives to a leave. It is important for faculty to have the opportunity to provide advice and counsel about how to manage the intersection of graduate education and personal situations. As an alternative arrangement, a student may remain enrolled but ask for a within-term accommodation that allows a temporary reduction in coursework, research, teaching or other educational responsibilities, or an extension of time allowed for achieving candidacy and completing the degree (sections 3.4, 3.5, 3.6). Such within-semester accommodations allow a student to maintain eligibility for student services.

Emergency situations may require a student to begin a leave of absence in the middle of a term. In these circumstances, students would withdraw their registration for that term and then immediately begin the approved leave of absence. Adjustments to tuition and fee charges are made according to the schedule set by the Registrar's Office. Emergency leaves do not reverse the charges set by this schedule.

US immigration regulations may restrict the eligibility of an international student for a leave of absence. International students considering a leave of absence must consult with the International Center, so that the Center can either inform the student that the proposed leave of absence is permissible under immigration regulations and can update the student's SEVIS record if needed, or, if the proposed leave is not permitted by immigration regulations, advise the student on other possible courses of action.

The following general policies of the Rackham Graduate School apply to all leaves of absence.

1. Chairs or directors of graduate study review and forward all requests for leaves with recommendations to the Dean of the Rackham Graduate School for review and approval.
2. A leave of absence is not required for the spring/summer, since students maintain active status during these terms whether or not they are enrolled for courses.
3. A student may submit a request to the graduate chair or director of the program and the Rackham Graduate School to return to registered status within the approved leave period.
4. Leaves of absence will not be approved for prior terms.
5. A newly admitted student who has registered may seek an admissions deferral, rather than a leave of absence, if the request and approval occur before the end of the third week of classes in the initial term of registration.
6. Students returning from an approved leave must re-enroll for the next fall or winter term that follows the leave. Returning students who do not extend their leave or obtain a new leave, and do not register for the next fall or winter term, will be considered to have withdrawn and be discontinued from the program.
7. Students on leave may finish work from previous terms, such as completing unfinished work for prior courses in which grades of incomplete have been assigned, but may not complete other requirements for their degree (e.g., taking exams for achieving candidacy).
8. The time limit for reaching candidacy or for completing the PhD degree will be extended by the number of terms the student is on leave (sections 5.1, 5.4.1).

**Leave of Absence for Medical Reasons**

A student will be granted a leave of absence for medical reasons for a serious physical or mental health condition that prevents continued participation in the program. Application for a leave requires a written recommendation from a health care provider. A student can request a leave for up to two consecutive fall or winter terms, or 12 consecutive months, and may request an extension for up to an additional 12 months, or a maximum leave of 24 months. The program may initiate a request for a leave for medical reasons in the event that the student is incapacitated. The checklist and form to request a leave of absence for medical reasons is available on the Rackham website.

For some medical circumstances, students should consider whether a within-semester medical accommodation is more appropriate (section 3.4).

**Leave of Absence for Family Necessity or Dependent Care:**

A student may be required to step away from study for a term or more to take care of an urgent family necessity or to provide dependent care. A student will be granted a leave of absence:

- to take care of a serious circumstance that directly affects a family member, such as a death, serious health condition, financial difficulty, or other critical life situation; or
- to provide care for a dependent incapable of self-care because of age or disability.

For family necessity, “family” is defined according to the University’s Standard Practice Guide (SPG 201.11) to include: the student’s spouse or domestic partner with whom the student shares living accommodations and expenses, and, without regard to their place of residence, the child, sibling, parent, grandparent or other related individual whose primary care is the responsibility of the student. For dependent care, a dependent is defined as: a biological, adopted or foster child, stepchild, or legal ward who is either under 18 years old; a family member (as defined above) older than 18 years and unable to provide self-care; or a spouse or domestic partner.

A student must explain the reasons why a leave is needed. A student can request a leave for up to two consecutive fall or winter terms, or 12 consecutive months, and may request an extension for up to an additional 12 months, or a maximum leave of 24 months. Students who have become parents through birth or adoption may remain enrolled, with the benefits of this status, but seek a Graduate Student Parental Accommodation within the term (section 3.5). The checklist and form to request a leave for family necessity or dependent care are available at Rackham’s website.

**Leave of Absence for Military Service:**

A student will be granted a leave of absence for the duration of a military service obligation to their country of citizenship. The student must provide documentation confirming induction or authorization for active duty. The checklist and form to request a leave for military service are available at Rackham’s website.

**Leave of Absence for Personal Reasons:**

After completing at least one full term, a student may request a one-term non-renewable leave of absence for personal reasons. A student should request this leave before the beginning of the term for which this leave is requested. A leave of absence for personal reasons may be taken only once during the graduate career, even if the student begins a leave in mid-term. A student considering a personal leave is encouraged to discuss other possible arrangements with the advisor and chair or director of graduate studies. Alternative strategies may help the student to continue in the program and to have the benefits of enrolled status. Checklist and form to request a leave of absence are available at Rackham’s website.

## **Services Available to Students on Leave**

### **Insurance and Health Care**

- may be eligible to purchase an extension of existing health insurance coverage at personal expense;
- are not eligible to begin enrollment in either GradCare or the Domestic Student Health Insurance Plan;
- can have access to the services of the University Health Service (UHS) at personal expense on a fee-for-service basis by purchasing the UHS Prepaid Plan, or through the provisions of any health insurance coverage the student may have.

### **Academic Services**

- retain access to the University's libraries, including borrowing privileges and remote access;
- are not eligible for University-administered fellowships, grants, temporary student employment or any of the following appointments: Graduate Student Instructor, Graduate Student Research Assistant, or Graduate Student Staff Assistant;
- are not eligible for University grants or reimbursements for supplies, materials, travel or other expenses; student loans
- are not eligible to apply for new student loans intended to span the period of non-enrollment; should consult with the Office of Financial Aid for deferral and forbearance options of any outstanding student loans.

### **E-mail, Computing**

- retain access to their University e-mail account, storage space in the IFS home directory, and to University websites that require authentication with a Login ID

### **Housing and Recreational Services**

- may be able to retain their University Housing contract, depending on the duration of the leave and its intersection with the contract (students who live in University Housing should consult with the Housing Office to understand their options to continue or cancel their contracts)
- retain access to the International Center, and can have access to Recreational Sports with a continuing student pass at personal expense