



# GRADUATE EDUCATION

Michigan State University has thirteen colleges authorized to offer programs leading to master's and doctoral degrees:

- Agriculture and Natural Resources
- Arts and Letters
- The Eli Broad College of Business
- Communication Arts and Sciences
- Education
- Engineering
- Human Medicine
- Music
- Natural Science
- Nursing
- Osteopathic Medicine
- Social Science
- Veterinary Medicine

The Graduate School assists in the coordination, facilitation, and integration of graduate education programs. Visit us at [www.grad.msu.edu](http://www.grad.msu.edu), or call 1-517-353-3220.

The Dean of the Graduate School, in conjunction with the University Committee on Graduate Studies, exercises overall review and supervision of graduate programs conducted in the colleges. Each college is responsible for developing graduate programs consistent with the highest professional standards of the respective fields. To provide access to certain fields of study, some colleges and departments offer master's degree programs at various locations and online. All academic programs are in the hands of competent faculty enjoying national and international reputations.

The descriptions of graduate programs offered in the colleges attest to the variety of intellectual opportunities provided by this University. Information on the requirements of any given major may be found in the pages which follow in this section and in the

sections describing the individual colleges, departments, and schools.

The organizational structure of the colleges, divisions, schools, and departments for instructional programs is shown in *The Academic Program* section of this catalog.

Information on fees, general procedures and regulations, housing, and facilities is given in the *General Information, Policies, Procedures and Regulations* section of this catalog.

Michigan State University reserves the right to modify or eliminate programs that are described in this publication. In the event such an action is taken, students affected will be advised by their units of the options available to them to complete their degrees. Every reasonable effort will be made to permit students to complete these programs or similar programs.

## Foreign Language Requirements

Individual departments, schools, or colleges may, with the approval of the University Graduate Council, require competency in foreign languages as part of the requirements for graduate degrees. Such requirements are specified in catalog descriptions of the programs.

Departments, schools, or colleges that require one or more foreign languages as part of their graduate degree requirements are responsible for certifying competency. This can be done either by utilizing their own faculty or by making arrangements with the appropriate language department(s). Each such unit shall develop a written policy establishing guidelines for determining language competency.

Students may meet the German requirement by satisfactorily completing German 400, and the Russian requirement by satisfactorily completing Russian 410.

## GRADUATE EDUCATION

### Admission

#### Policy on Research with Human Subjects

Refer to the statement on *Policy on Research with Human Subjects* in the *General Information, Policies, Procedures and Regulations* section of this catalog.

The Graduate School will not accept master's theses or doctoral dissertations containing research involving human subjects that have not had prior review and approval by the University Human Research Protection Program Institutional Review Board.

#### Student Rights and Responsibilities

Refer to the statement on *Student Rights and Responsibilities* in the *General Information, Policies, Procedures and Regulations* section of this catalog.

## ADMISSION

A senior in or a graduate of this university or of another institution having substantially the same requirements for a bachelor's degree may apply for admission to a graduate program.

Admission to the university is conditioned upon the applicant's providing accurate and current admissions information and upon the applicant's updating such data if circumstances arise that make the previously provided information inaccurate, misleading, or incomplete in an important way. Submission of an application authorizes the university to investigate the accuracy of statements made and data provided by the applicant and those who submit materials or information on behalf of the applicant. Falsifications, misrepresentations or omissions in application answers or supporting data may constitute grounds to deny or revoke admission to the university. Admission to the university may be denied or revoked if the university learns that an individual has engaged in conduct that indicates to the university that the individual is not ready to be a responsible member of the university community.

Acceptance of an applicant for admission to a program leading to a master's degree, a doctoral degree, an educational specialist degree, or a Type 2 graduate certificate program is determined by the academic unit and the dean of the college in which the program is offered. For the following interdepartmental programs, the faculty who are associated with the program, in addition to the faculty of the academic unit, review applications for admission and recommend acceptance of applicants for admission. These programs are: Multidepartmental Doctoral Program in Environmental Toxicology, Interdepartmental Program in Ecology, Evolutionary Biology and Behavior, and the Interdepartmental Graduate Programs in Plant Breeding, Genetics and Biotechnology.

The acceptance decision is made after consideration of the applicant's academic record, experience, personal qualifications, and proposed program of study. The chief academic officer of the university has authority to grant waivers of usual entrance requirements upon recommendation of the Dean of the Graduate School.

#### Application Procedure

Admission to Michigan State University is open to all candidates on the basis of academic preparation and ability, and the availability of space in the desired academic program, and without regard to race, color, gender, gender identity, religion, national origin, political persuasion, sexual orientation, marital status, disability, height, weight, veteran status, age, or (in the case of U. S. citizens) financial need.

The applicant for admission at the graduate level must:

1. Complete the Online Application for Admission to Graduate Study, submit it with a credit card number or by electronic check or money order to cover the application fee. Send all additional materials directly to the department, school or program to which admission is sought.
2. Request the registrar of each college or university attended to send one copy of each official transcript (translated into English, if needed) directly to the department, school or program to which admission is sought. Transcripts of work taken at Michigan State University need not be requested.
3. Have three letters of recommendation sent electronically to the chairperson or director of the department or school to which admission is sought.
4. Take any examinations required by the college and department or school and have the testing agency forward official results to the department or school to which admission is sought. For additional information, refer to the appropriate college and department or school section of this catalog.
5. Fulfill any additional requirements and procedures of the college and department or school to which admission is sought.

To ensure full consideration, the application for admission, the application fee, official transcripts, letters of recommendation, test scores, and other required documents must be received by the appropriate offices at least nine months prior to the anticipated first semester of enrollment.

If the applicant is also applying for financial aid, the application materials must be received nine months prior to the first semester of enrollment. An application for an assistantship, fellowship, or scholarship for a fall semester is assured of full consideration if received before January 1, of that year, unless the application is for a special form of financial aid carrying an earlier deadline date. Some awards of financial aid are made earlier than January 1, and the applicant is therefore encouraged to file the application as early as possible.

Applications for loans for new students are made through the Office of Financial Aid and should be returned to that office before April 1, except for such loans as may carry a later deadline date.

See the *General Information, Policies, Procedures and Regulations* section of this catalog for further details.

#### Concurrent Application to a Graduate Program

Applicants seeking admission to a graduate program may apply to two programs concurrently in order to seek admission to the program that is the appropriate field of study for their needs. Submission of applications concurrently may be for any two programs selected from master's degree programs, educational specialist degree programs, graduate certificate (Type 2) programs, and/or doctoral degree programs. For each program, the applicant must file a separate application and pay a separate application fee.

#### Admission to a Degree Program

An applicant for admission to a graduate program leading to a master's degree or an educational specialist degree must be a senior in or a graduate of an institution having substantially the same requirements for a bachelor's degree as Michigan State University. An applicant for admission to a doctoral or doctor of education degree program may be required to have completed a master's program or its equivalent. In certain departments and schools, however, a student may be allowed to begin a doctoral program directly after obtaining a bachelor's degree. Normally, a grade-point average of at least 3.00 (B) in the third and fourth years of undergraduate study is required by all departments and schools for regular admission to graduate programs.

Upon admission to a graduate program a student is classified in one of two categories, regular or provisional. Specific criteria for distinguishing between these categories are determined within each college for its own programs. In general, these criteria are:

1. **Regular:** Students who are considered to be fully qualified to undertake a program toward the graduate degree for which they are admitted.
2. **Provisional:** Students of promise who have some remediable inadequacy of qualification such as a minor deficiency in subject-matter preparation or for whom there is incomplete interpretation of available records. A student who is admitted to provisional status will be eligible for change to regular status when specific written conditions for transfer to regular status have been met.

### Change in Program

Graduate students currently enrolled in a degree program but wishing to enter a different degree program should apply to the academic unit administering the proposed new program at least six weeks in advance of the deadline set by the unit for ordinary applications.

### Collateral Courses

A graduate student admitted with deficiencies in academic background may be required to take collateral courses in addition to the prescribed courses of a program. Credits earned in collateral courses do not count toward the minimum credit requirements for a degree.

### Delayed Enrollment

If a person files an application for admission to a graduate program for a specific semester and is accepted but does not enroll for that semester, that person may renew his or her application within a period of one year. If after one year that person still has not registered at Michigan State University, that person must file a new application for admission.

### Dual Enrollment by Undergraduates

Dual enrollment provides an opportunity for academically talented undergraduate students to enroll in graduate courses and conduct research towards a graduate degree while completing the last two years of their bachelor's degree(s) programs.

To be considered for dual enrollment, the student must first file an Application for Admission to Graduate Study, as indicated under Application Procedure in this section of the catalog and be admitted into a graduate program. Subsequent to admission to a graduate program, in regular status, the student must complete a Request for Dual Enrollment Status form, available from the Office of the Registrar. A student who is accepted for dual enrollment can be admitted to both the undergraduate and graduate degree program upon reaching junior standing.

Within the first semester of dual enrollment, the student's graduate degree program advisor must be identified and the appropriate graduate degree guidance committee established. The advisor and committee assist the student in developing a program of study for the graduate degree. Admission to graduate study and the Request for Dual Enrollment Status form must both be approved before work to apply toward a graduate degree program is undertaken. Credits completed prior to admission to graduate study *cannot* be applied toward a graduate degree program.

A student will be classified as an undergraduate until the minimum number of credits required for a first bachelor's degree is completed. When the student is classified as a graduate student,

eligibility begins for graduate assistantships, other forms of graduate student financial aid, or those services and prerogatives normally reserved for graduate students.

A student pays undergraduate tuition up to the total number of credits required for a first bachelor's degree(s) in his/her major(s), at which point graduate tuition is applicable and students are eligible for graduate fellowships and assistantships. If approved by the graduate program, a maximum of nine credits, at the 400-level or higher, from the undergraduate degree program can be applied toward the requirements for the graduate degree program for credits completed after admission to graduate study. Some colleges with programs that require more than 30 credits for the master's degree may apply more than 9 credits toward the master's degree but not more than 30% of the total number of credits required for the master's degree. Credits applied to a master's degree are not eligible to be applied to any other degree program.

In semesters when the student is dually enrolled, federal financial aid designated for the first bachelor's degree (Federal Pell Grant and Federal Supplemental Educational Opportunity Grant (SEOG)) will be determined based upon the number of undergraduate credits only. Awards will be manually adjusted as necessary once the student is registered. Students are not eligible for financial aid as a graduate student until the semester after the minimum number of credits required for the first bachelor's degree has been earned.

### Faculty Members of Michigan State University Admission to Graduate Study

A faculty member with the rank of professor, associate professor, or assistant professor may not earn a doctoral degree from Michigan State University. Any waiver of this regulation may be made only by agreement of the University Committee on Graduate Studies and the provost prior to the beginning of the program. A faculty member may earn a master's degree at Michigan State University.

### Housing

New students may apply for housing after the notice of acceptance for admission is issued. Specific instructions are provided with the notice of acceptance. Former students may apply for housing facilities after their applications for readmission have been accepted. Although additional students may be accommodated in university housing, housing reservations are guaranteed only for first-year students. See *Housing* and the *University Housing Policy* in the *General Information, Policies, Procedures and Regulations* section of this catalog for more information on university housing regulations and facilities.

### Readmission to Original Program

Graduate students whose enrollment at Michigan State University is interrupted for any reason so that they have not been enrolled for three consecutive semesters, including the summer Sessions, must apply for readmission via the web at [www.reg.msu.edu](http://www.reg.msu.edu) at least two months prior to the first day of registration for the semester in which the student expects to resume graduate studies. Faculty will evaluate the application to determine admission.

### Readmission with Change of Program

A graduate student wishing to pursue a degree or program other than the one originally sought, and who has not been enrolled for three consecutive semesters, including the summer Sessions, or

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### Admission

who has completed prior courses of study, must file a new graduate application as noted in the *Application Procedure* section of this catalog.

## INTERNATIONAL STUDENT ADMISSION

Michigan State University welcomes applications from international students and is authorized by the U.S. government to issue Forms I-20 and DS-2019 to assist non-immigrants to apply for F and J visas.

A prospective international student should contact the graduate department to which they wish to apply and ask for the graduate application information packet. We recommend that prospective students obtain application information well enough in advance so that the completed application can be submitted nine months before the program's start date. One official copy of all records of any previous schooling (mark sheets, transcripts, diplomas, certificates, etc.) must be submitted as official documents directly from each institution. These records must show courses taken and grades earned, and must be translated into English if the original records are in another language. If a document is translated, it should be certified as accurate and correct by an appropriate public or school official, or sponsoring agency or government. The original record should be also included. The chief academic officer of the university has authority to grant waivers of usual entrance requirements upon recommendation of the Dean of the Graduate School.

U.S. immigration regulations require that non-immigrants who intend to study in the United States hold a student visa (F or J) and attend the institution that issued the Form I-20 or DS-2019 they used to obtain their visa. Michigan State University is required by U.S. government regulations to obtain evidence of a non-immigrant student's financial ability to meet their educational and living expenses for each year of their proposed study before issuing the Form I-20. Estimated expenses may be found by visiting <http://admissions.msu.edu/finances/tuition.asp>. Thus, providing written verification of the source and amount of financial support available for at least the first year of study is part of the application process. This information should be sent to the Office of Admissions. It is common that a teaching or research assistantship serves as the required evidence of financial support. If you are awarded an assistantship, your department will notify the Office of Admissions.

If the student is approved for admission, the university will mail a letter of acceptance and the Form I-20 to the student. The student will need to present the Form I-20 and evidence of financial support to a U.S. Consular Officer when applying for a student visa and later, to a U.S. immigration inspector at a U.S. port of entry. If a student must obtain a J Exchange Visitor visa, he or she should contact their sponsoring agency, or Michigan State University's Office for International Students and Scholars (<http://oiss.isp.msu.edu>) for information about the issuance of a Form DS-2019.

There can be lengthy delays in the time it takes for the visa application to be approved. We recommend non-immigrant students apply as far in advance as possible for the student visa. More information about the process to obtain a U.S. student visa can be found at: <https://travel.state.gov/content/travel/en/us-visas/study/student-visa.html>.

A student who currently attends another institution in the U.S. will need to notify the U.S. government of their school transfer. An international student advisor can provide the information about the procedures to transfer a student's visa sponsorship from one institution to another.

## English Language Proficiency

All international applicants and applicants for graduate programs whose first language is not English must be able to demonstrate their English language proficiency. Those applicants who do not demonstrate English language proficiency must fulfill the requirements stated below as part of the admissions procedure. Graduate students may be admitted on regular status or on provisional status.

## Minimum Requirement For Regular Admission

All international applicants and applicants whose first language is not English must be able to be proficient in English as a condition for regular admission to Michigan State University. Such applicants will be required to demonstrate their proficiency by meeting certain minimum standards on any one of the following tests:

1. *Test of English as a Foreign Language* (TOEFL). A total score of 550 with no subscores below 52 (paper version), or 80 with no subscore below 19 (22 for writing section) (internet-based version) is required. The official report must be received by the Office of Admissions directly from Educational Testing Service.
2. *Michigan English Language Assessment Battery* (MELAB) (Testing and Certification Division, The English Language Institute, The University of Michigan, Ann Arbor, Michigan 48109, USA). An average score of 83 or higher with no subscores below 80 is required for the main test parts. A MELAB speaking score of at least 3 is also required. The official report must be received by the Office of Admissions directly from the University of Michigan English Language Institute.
3. *International English Language Testing System* (IELTS). A minimum average score of 6.5 is required, with no subscore below 6.0. The official report must be received by the Office of Admissions directly from IELTS.
4. *Michigan State University English Language Test* (English Language Center [ELC], Michigan State University, East Lansing, Michigan, 48824-1035, USA). An average score of 80 to 85 with no subscores below 80, or a minimum average score of 85 with no subscores below 78 is required.
5. *Pearson Test of English Academic* (PTE A). Minimum overall score of 53; no subscore below 51 for reading, listening, and speaking; no writing subscore below 59.
6. *Michigan State University Certificate of English Language Proficiency* (CELP). Regular admission: score of 65 with no subscore below 15 (17 for writing section). Provisional admission: score of 60. <http://elc.msu.edu/tests/celc-celp/>

All of the above tests must have been taken within two years of a student's application.

## Minimum Scores For Provisional Admission

International applicants who have acceptable academic credentials may be admitted to Michigan State University on a provisional basis with average TOEFL scores of at least 520 (paper version) or at least 70 (Internet-based version), or an average score of at least 72 on the MELAB, or 6 on the IELTS, or 72 on the Michigan State University English Language Test (MSU-ELT), or 48 on the Pearson Test of English Academic (PTE A).

Provisionally admitted students must take classes at the English Language Center, and restrictions are placed on the number of academic courses that they may take. Any student admitted provisionally because of an English language deficiency must correct that deficiency within one calendar year.

### Required English Language Center Attendance

As the language requirement is a University policy, a decision by the English Language Center (ELC) for a student to enroll in its program is binding and is not negotiable by the student. Students who are required to attend ELC classes are obligated to show good class attendance and make an earnest effort to remove the language deficiency as soon as possible. The ELC program must be completed satisfactorily before regular admission status may be granted.

### Teaching Assignments

All students whose first language is not English and who are admitted to graduate studies at Michigan State University with teaching assistantships involving recitations, discussions, or laboratory sections will be given the Speaking Proficiency English Assessment Kit (SPEAK) test by the English Language Center upon arrival on campus. Students may submit a current (within two years) Test of Spoken English (TSE) in lieu of the SPEAK test. Students who do not pass the initial SPEAK test or TSE may not assume teaching responsibilities until they complete English 097, an oral skills course for international teaching assistants, and pass the International Teaching Assistant oral interview or pass a subsequent SPEAK or TSE test. The chairperson of the student's teaching assignment department may request an opportunity for a special review by the International Teaching Assistant Oral Review Board if the student does not pass the initial screening. The Board determines whether the student may be cleared for teaching duties. If the student fails to pass the *minimum all-University standard* of English proficiency for regular admission status, he or she may not be assigned to do any classroom teaching, including laboratory instruction and recitation or discussion sections, without approval of the English Language Center. Units may hold a higher-than-minimum performance criterion if they so choose if the content and/or the teaching models warrant.

See *Costs* in the *General Information, Policies, Procedures and Regulations* section and *English Language Center* in the *College of Arts and Letters* section of this catalog for additional information.

### International Student Accident and Health Insurance

International students are required to have health and accident insurance. Students are required to purchase the Michigan State University Student Accident and Health Insurance Plan unless they have evidence of alternative insurance equal in benefits and provisions to the Michigan State University plan. Fees for the student's insurance are included with the bill for tuition and fees during registration. Waivers to allow purchase of alternative plans must be approved by the Human Resources Office, Human Resources, 110 Nisbet Building.

# ENROLLMENT and REGISTRATION

### Academic Advisement

Each student is assigned a member of the faculty who serves as the academic advisor. The name of the advisor is included with other information which is mailed to the student before registration. Each student's program is planned with, and must be approved by, the advisor, and changes may be made only with the advisor's approval.

The students should report first to the office of the assigned academic advisor in order to plan the schedule of courses for the semester.

### Enrollment, Fees, and General Information

Information relating to enrollment, payment of fees, credits, changes in enrollment, the grading system, and other general information is given in the *General Information, Policies, Procedures and Regulations* section of this catalog.

### Period Covered by Registration

Refer to the statement on *Period Covered by Registration* in *The Academic Program* section of this catalog.

## MAXIMUM AND MINIMUM CREDITS

### All Students

**MAXIMUM.** Graduate students may carry up to 16 credits each semester. The maximum number of credits, however, is determined by the department or school. A student load above 16 credits requires approval by the student's dean. Enrollment in doctoral dissertation research (course number 999) credits need not be counted in determining maximum credits.

For Ph.D. students, a maximum total of 36 credits of doctoral dissertation research (course number 999) are permitted.

**MINIMUM.** All students using University services (faculty consultation included) for graduate work must be registered each semester. Minimum registration consists of one course of 1 credit.

### Full-Time Students

In order to be considered full-time for academic purposes, students must carry the minimum number of credits per semester or summer session as defined below:

|                                       |            |
|---------------------------------------|------------|
| Master's level . . . . .              | 9 credits  |
| Doctoral level (pre-comps) . . . . .  | 6 credits  |
| Doctoral level (post-comps) . . . . . | 1 credit   |
| Graduate-Professional level. . . . .  | 12 credits |

All graduate assistants are classified as full-time students during the semester (s) of their appointments as long as they are enrolled for the minimum required credits for the assistantship.

**Full-time status for doctoral students is defined as a minimum of 1 credit for those students who:**

1. have successfully completed all comprehensive exams and are actively engaged in dissertation research; or
2. are doing department-approved off-campus fieldwork related to preparation of their dissertation.

## GRADUATE EDUCATION Enrollment and Registration

Federal agencies such as the Department of Education, Department of Veterans Affairs, and Department of Homeland Security may have separate and distinct full-time status requirements.

### Graduate Assistants

Graduate assistants must be registered each semester in which they hold assistantships. The minimum and maximum credit loads are as follows:

For a **quarter-time** graduate assistant, minimum enrollment is 6 credits for master's degree students and 3 credits for doctoral students (*including* credits in courses numbered 899 or 999); maximum enrollment is 16 credits (*excluding* credits in courses numbered 899 or 999).

For a **half-time** assistant minimum enrollment is 6 credits for master's degree students and 3 credits for doctoral students (*including* credits in courses numbered 899 or 999); maximum enrollment is 12 credits (*excluding* credits in courses numbered 899 or 999).

For a **three-quarter-time** assistant, minimum enrollment is 3 credits (*including* credits in courses numbered 899 or 999); maximum enrollment is 8 credits (*excluding* credits in courses numbered 899 or 999).

**Minimum enrollment for doctoral students who have successfully completed all comprehensive exams is 1 credit.**

Deviation from the minimum enrollment requirements listed above is permitted only during:

1. summer session, when a 3-credit minimum enrollment is allowed for all types of assistants, with 1-credit minimum for doctoral students successfully completing all comprehensive exams.
2. the semester in which the degree is granted, when all types of assistants must enroll for at least the number of credits required to complete the degree or meet the university minimum registration requirement.

Any deviation from the maximum enrollment requirements listed above must have the approval of the dean of the college *prior to enrollment*.

In meeting the credit requirements, graduate assistants should be enrolled in courses that are recognized as being of graduate level unless the student's department or school has granted written permission for course work constituting an exception to this rule. Visitor credits may count as part of a graduate assistant's credit load, if approved, in writing, by the student's department chair or unit director and the Dean of the Graduate School.

### Graduate Assistant (not covered by the Graduate Employees Union Contract) Illness, Injury, and Pregnancy Leave Policy

A graduate assistant unable to fulfill the duties of his or her appointment because of illness or injury shall notify the administrator of his or her major unit as soon as circumstances permit. Similarly, a graduate assistant unable to fulfill the duties of her appointment because of pregnancy shall notify the administrator of her major unit as soon as circumstances permit.

During the illness, injury, or pregnancy the major unit shall adjust (reduce, waive, or reschedule) the graduate assistant's duties as those duties and the assistant's physical circumstances reasonably dictate. If total absence from duties becomes necessary, the major unit shall maintain the stipend of the appointment, provided the graduate assistant is still enrolled, for a period of two months, or to the end of the appointment period or of the semester, whichever should occur first.

The graduate assistant shall have the right to return to the assistantship, within the original terms of the appointment, at

such time as he or she is able to reassume the duties of the position.

A graduate assistant planning to take a leave under this policy shall notify the administrator of his or her major unit as soon as circumstances permit.

A graduate assistant who adopts a child shall be entitled to adoption leave of up to two (2) months, the first week of which will be paid by the major unit and the balance of which will be unpaid, to commence on or before the date of adoption as determined by the graduate assistant.

A graduate assistant who becomes a parent by birth and is not otherwise covered by the pregnancy leave policy, shall be entitled to parental leave of up to two (2) months, the first week of which will be paid by the major unit and the balance of which will be unpaid to commence on or before the date of birth as determined by the graduate assistant. Additional unpaid leave may be arranged on an ad hoc basis, as mutually agreed with the major unit.

Eligibility for adoption leave or parental leave is determined under the following conditions: (1) It must be completed within six (6) weeks of the birth or adoption of a child under the age of six (6); (2) It may not extend beyond the graduate assistant's previously scheduled appointment end date; and (3) It must be requested in writing no less than four (4) weeks prior to the scheduled start of the leave.

### Graduate Fellows

Most fellowships require full-time pursuit of a graduate program. Unless the fellowship carries specific requirements for determining eligibility, the department or school is responsible for determining and certifying the full-time status of the student. All predoctoral graduate fellows paid through the university must be registered during the period for which payment is made.

## FINANCIAL AID for GRADUATE STUDENTS

Financial aid for graduate students is available in several forms. A number of scholarships and fellowships are awarded each year by the Graduate School to the colleges, and there are many opportunities for graduate assistant appointments for part-time teaching or research. The applicant should refer to the graduate application instruction sheet that accompanies the application for admission for details on applying for financial assistance.

Students already admitted to regular graduate status at Michigan State University and seeking an assistantship or other financial aid should consult the department, school, or college concerned. Since graduate assistantships and fellowships are usually awarded beginning in February for the following aid year, it is essential that applications and supporting documents be submitted in December or early in January to assure adequate consideration. Individual graduate programs may specify an earlier date.

### GRADUATE ASSISTANTSHIPS

Graduate assistant is a generic term referring to a graduate student who is supported on a graduate assistantship. Graduate assistants are in one of three categories as they relate to policy in this section: research assistants, teaching assistants represented by the Graduate Employees Union (GEU), and teaching assistants not represented by the GEU.

Graduate assistantships are available only to graduate students who are actively pursuing graduate degree programs and who are making satisfactory progress toward their degrees, including maintaining at least a 3.00 grade-point average. Colleges, departments, or schools may set higher or additional standards.

Graduate assistants are appointed on a **quarter-time, half-time, or three-quarter time basis**. There are two appointment periods during the fall and spring: August 16—December 31 and January 1—May 15. During each appointment period a graduate assistant's duties to the university require an average of:

1. 10 hours per week for a quarter-time stipend.
2. 20 hours per week for a half-time stipend.
3. 30 hours per week for a three-quarter-time stipend.

Summer appointments cover the period from approximately May 16—August 15. The appointing unit is responsible for informing the graduate assistant of the distribution of duties that are related to the summer appointment.

To the extent that current policies and procedures contain provisions about wages, benefits, or other terms and conditions of employment, they are for teaching assistants included in the collective bargaining agreement between Michigan State University and the Graduate Employees Union.

### **Research Assistant and Teaching Assistant Excluded (TE) (i.e. Not represented by the MSU Graduate Employees Union Collective Bargaining Agreement (GEU))**

#### **Assistantship Levels**

**GRADUATE ASSISTANTS, LEVEL I.** Graduate students with the bachelor's degree and less than one year's experience as graduate assistants or as full-support fellows. They conduct research, perform administrative tasks or other supervised duties such as reading and grading papers.

**GRADUATE ASSISTANTS, LEVEL II.** Graduate students with a relevant master's degree or equivalent and/or one year's experience as graduate assistants or as full-support fellows in the appointing department or school or in a unit considered relevant by the chairperson of the appointing department or school. They conduct research, grade papers, or perform administrative tasks with moderate supervision. Advancement from Level I to Level II is usually routine.

**GRADUATE ASSISTANTS, LEVEL III.** Graduate students who have successfully completed doctoral comprehensive exams, as defined by the department in which the student is enrolled, and have experience as a graduate RA/TE at Michigan State University, or equivalent. The minimum number of semesters shall be four (4), five (5) or six (6). The definition of equivalent experience as an RA/TE is left to the discretion of the chairperson of the appointing unit, but it is expected that only experience in research-oriented assignments will count toward the six semesters of experience as an RA. (Consistent with current practice, 1/4 time and 3/4 time appointments count the same as 1/2 time appointments, and summer semesters count the same as fall and spring semesters.)

#### **Stipends and Benefits**

Stipend levels are subject to yearly change.

For the latest information, please consult the Human Resources Web site at <https://www.hr.msu.edu/employment/graduate-assistants/stipend-ranges.html>.

Checks are distributed on a biweekly basis. Graduate assistants at any of the three levels may be appointed on a quarter-time, half-time, or three-quarter-time basis with an appropriate adjustment in the stipend. Additional benefits, even

though the graduate student does not enroll for 10 credits or more, include the following:

1. Tuition waiver in the amount of 9 credits for fall semester, 9 credits for spring semester, and five credits for summer session. The tuition waiver will be provided during the period of the assistantship, to a maximum of 23 credits per year. For Ph.D. students past comprehensive exams with a summer (only) research assistantship following a spring assistantship, there is a 1 credit non-fringe research assistantship option available <https://www.hr.msu.edu/ua/hiring/graduate-assistants/no-fringe/>.
2. Exemption from out-of-state resident tuition. This exemption applies to a summer session that precedes or follows consecutive fall and spring appointments, regardless of whether the student was previously enrolled at Michigan State University. If the student does not have a graduate assistantship form completed before registering for summer session, he or she will pay out-of-state resident course fees and tuition. If an appointment form is submitted prior to the middle of the subsequent fall semester, the Office of the Registrar will refund the full amount of out-of-state tuition that the student paid for the summer session.
3. Specific college or program fees, applicable to all graduate students enrolled in a specific college or program, may apply and are not waived.
4. Health Insurance. Graduate assistants (domestic and international) are automatically enrolled in a health insurance plan, the premium of which is paid by the university. The plan provides the following coverage:
  - a. Fall appointment only: coverage from August 16 to February 15 of the following year.
  - b. Fall and spring appointments—coverage from August 16 to August 15 of the following year.
  - c. Spring appointment only—coverage from January 1 to August 15.
  - d. Summer appointment only—coverage from approximately May 16 to August 15.Enrolled students may also insure their eligible spouse and/or dependent children (residing with the insured). For questions regarding coverage, enrollment or premium payment, contact BCN directly at 1-800- 859-8452. For questions concerning waiver processing or general information, contact the Michigan State University Human Resources Office at 1-517-353-4434 or 1-800-353-4434, or by e-mail at: [solutionscenter@hr.msu.edu](mailto:solutionscenter@hr.msu.edu). The Human Resources Office is located at 1407 S. Harrison Road, Suite 140A (Nisbet Building), East Lansing, MI 48823 and on the web at <https://www.hr.msu.edu/benefits/graduate-assistants/health/index.html>; or visit BCN at [www.bcbsm.com/msu](http://www.bcbsm.com/msu).
5. Eligibility for treatment at Olin Health Center.

#### **Early Termination or Resignation of Assistantships**

If a graduate assistant resigns an assistantship or the assistantship is terminated early during a semester, such that the appointment does not meet minimum duration standards (53 calendar days in Fall and Spring; 46 calendar days in Summer), he/she will be assessed tuition for all credits carried, and those who are not Michigan (in-state) residents will be assessed out-of-state tuition.

## GRADUATE EDUCATION

### Financial Aid for Graduate Students

#### Additional Benefits, Other Information

Library privileges, intramural and recreative facilities privileges, and eligibility to join the Michigan State University Federal Credit Union.

Eligibility for student discounts on football, basketball, and/or hockey season tickets for themselves and their spouses.

Eligibility for free admission to other regularly scheduled Michigan State University athletic events when presenting a valid student ID card.

Eligibility for student discounts on series tickets to professional performing arts events at the Wharton Center for Performing Arts and Institute for Arts and Culture, including one guest ticket at the student rate.

Exemption from payment of the Social Security tax on the stipend if the student is enrolled for the minimum number or required credits. Stipends are subject to income taxes with few exceptions. The taxability of stipends is subject to review by the Internal Revenue Service. Please call the Payroll Office for more information 1-517-355-5010. Please note that tax laws are subject to continuing revision and students should verify their tax liability each year.

#### Registration and Credit Load Requirements

Graduate assistants must be registered each semester in which they hold an assistantship. Specific information on maximum and minimum credit loads is found under the *Maximum and Minimum Credits* heading in this section of this catalog.

#### Academic Achievement Graduate Assistantships

These graduate assistantships provide financial support for students who are accepted into a master's or a doctoral degree program and whose enrollment will enhance the inclusiveness of the student body of the program into which they are admitted. This recruitment program is designed to assist academic units in attracting a cohort of students who have traditionally not participated in graduate programs in their units.

## GRADUATE-PROFESSIONAL STUDENT SCHOLARSHIPS

#### College of Human Medicine Scholarship Fund

To aid students in the College of Human Medicine.

#### Ingham County Medical Society

To assist students in the College of Human Medicine.

#### College of Osteopathic Medicine Scholarship Fund

To aid students in the College of Osteopathic Medicine.

#### Woman's Auxiliary Wayne County Medical Society

To provide scholarships for needy students in the College of Human Medicine.

## FELLOWSHIPS

A variety of graduate fellowships are available to Michigan State University students. Stipends and sources of support vary widely. In addition to applying for fellowships offered by the university and through the university by outside agencies, students are encouraged to apply for any outside sources of funds for which they may be eligible. Students are encouraged to consult such publications.

You can find a summary by visiting: <http://staff.lib.msu.edu/harris23/grants/3gradinf.htm>.

Michigan State University annually awards a number of fellowships and tuition scholarships to encourage and assist high-achieving students to pursue study leading to a graduate degree. A recipient of one of these awards must be enrolled in a degree program but is not required to give formal service to the university or to the department or school.

For a student not currently enrolled in a graduate program at Michigan State University, the application for admission also serves as an application for these awards. A student currently enrolled may apply through the respective department, school, or college.

#### Registration and Credit Load Requirements

Specific information on registration requirements for fellowship recipients is given under *Maximum and Minimum Credits* heading in this section of this catalog.

#### Education Opportunity Fellowships

To be eligible for this fellowship, Education Opportunity Fellowship (EOF) applicants must 1) demonstrate a need for financial assistance and have a minimum undergraduate federal loan indebtedness of \$25,000, both as determined by the Michigan State University Office of Financial Aid; 2) be a U.S. citizen or a permanent resident of the United States. Exact awards will vary depending on need. Students must be in good academic standing meeting department, college, and university standards. Enrollment requirements include a minimum of 6 credits each semester or 3 credits for the summer semester. Applications are only available between mid-January and mid-March for the next aid year. Applications must be renewed each year. Funds are allocated on a first-come, first-served basis until all are disbursed. Students with undergraduate federal indebtedness of \$25,000 or greater may qualify for the EOF or Student Aid Grant for Medical Student (SAG); they cannot receive both awards in the same academic year.

#### Graduate School Dissertation Completion Fellowships

These fellowships allow students to devote full time to writing the doctoral dissertation. Stipend is up to \$7,000 for the semester. This fellowships program is for students in the final months of their programs. About 200 fellowships are awarded each year. Application must be made directly to your department, school, or program <https://grad.msu.edu/fellowships/dissertation>.

#### University Distinguished and University Enrichment Fellowship Programs

The Graduate School offers fellowship programs that provide financial support for outstanding students who plan to enroll in a doctoral or master of fine arts program. We are particularly aware of the special role that graduate education plays in training the next generation of leaders in academia, government and the private sector. In assisting Michigan State University achieve its educational mission, our goal is to foster an intellectually vital and inclusive educational community that will prepare graduate students to assume their professional roles in a diverse society. The Graduate School's recruitment fellowships assist departments and programs in attracting a cohort of students who: have demonstrated academic excellence; articulate their commitment to research goals well matched to department or program doctoral emphasis areas; show evidence of leadership potential or the capacity to make a distinctive professional or scholarly contribution; contribute to an inclusive educational community, as evidenced in personal history and experience, research goals, or the promotion of understanding among persons of different backgrounds and ideas; have different racial, ethnic, gender, socio-economic, geographic, and disciplinary backgrounds. Visit <http://grad.msu.edu/universityfellowships>.

Two kinds of fellowship awards are available:

**University Distinguished Fellowships**, recognizing academic achievement, research goals, demonstrated leadership potential, and contribution to a diverse educational community.

**University Enrichment Fellowships**, recognizing academic achievement, research goals, contribution to a diverse educational community, and a record of overcoming obstacles.

Fellowship recipients beginning study in Fall 2019 will receive a 12-month stipend of \$28,000, plus a supplement for health insurance. In addition, tuition and related fees will be waived up to a maximum of ten credits during fall and spring semesters (up to three credits/semester in fifth year) and one to three credits during summer session. The first and fifth years are funded by the Graduate School, with no teach-



ing or research service required of the student. During the second, third and fourth years of support, students receive a departmental assistantship that may require them to assist in teaching or research. Master of Fine Arts students are jointly supported by the Graduate School and their departments for three years.

## DUAL DEGREE PROGRAM

A dual degree program is a graduate program of study offered collaboratively by Michigan State University and one or more domestic or international institutions in order to award a separate degree from each institution.

For a dual degree, there is a diploma issued from each participating institution.

## GRADUATE CERTIFICATE PROGRAMS

Graduate certificate programs are constructed in selected fields as complements to degree programs or as distinct offerings. The issuance of a graduate certificate signifies that the certificate holder has completed specified course work or professional training or possesses specified skills or competency levels. Four types of graduate certificate programs are offered at Michigan State University: Type 1 - directly related to a degree program; Type 2 - distinct entities that are transcriptable; Type 3 - distinct entities that are not transcriptable; and Type 4 - university-level certificate programs. Graduate certificate programs that appear on the transcript have been approved via academic governance.

The minimum number of credits for a Type 2 Graduate Certificate is nine. More than half of the credits of the total required for a graduate certificate must be taken in courses at the 500 and 600 levels or 800 and 900 levels. For additional information on graduate certificate programs, visit [www.reg.msu.edu/Read/UCC/gradcert.pdf](http://www.reg.msu.edu/Read/UCC/gradcert.pdf).

### University Graduate Certification in College Teaching

In partnership with colleges that have approved programs (Agriculture and Natural Resources, Arts and Letters, Communication Arts and Sciences, Education, Engineering, Music, Natural Science, Nursing, Social Science), the Graduate School oversees a professional development program, the University Graduate Certification in College Teaching (Type 4), for graduate students who wish to pursue additional activities related to pedagogy and preparation for faculty careers. Visit [www.grad.msu.edu/cctp](http://www.grad.msu.edu/cctp).

### University Graduate Certification in Community Engagement

In partnership with the Graduate School, the Office of University Outreach and Engagement oversees the University Graduate Certification in Community Engagement (Type 4) for interested graduate and graduate-professional students who wish to further their understanding and practice of engaged scholarship and research, engaged teaching, and engaged service in local, national, and international communities.

Contact the Office of University Outreach and Engagement, [gradcert.engage.msu.edu](http://gradcert.engage.msu.edu) or call 1-517-353-8977.

### Academic Standards

A 3.00 cumulative grade–point average for all courses counting toward the Graduate Certificate is the minimum university standard; however, colleges, departments, or schools may establish a higher minimum standard.

Each college and department or school determines whether the minimum standards must be attained at the completion of a certain number of credits or by a specified interval after the student's first enrollment in the graduate certificate program. Some colleges, departments, and schools will not permit a student to remain in a certificate program if there is an accumulation of more than a specified number of graduate credits with lower than a 3.0 grade even though the cumulative grade–point average is 3.00.

### Transfer Credits

Each program may decide how many credits of graduate course work may be transferred from institutions external to Michigan State University and may be applied to a Graduate Certificate. The department or school chairperson or director and dean must grant approval. Only courses in which at least a 3.0 grade or its equivalent was received will be considered for transfer. The College of Education may transfer 12 semester credits taken at the Graduate Certification (GC) level under the terms listed above. Some colleges with programs that require more than 30 credits for the master's degree may apply more than 9 credits toward the master's degree but not more than 30% of the total number of credits required for the master's degree.

### Applied Credits to Master's Degree Program

There is no limit to the number of credits taken at the graduate certification level at MSU that can be applied to a master's degree program. Credits applied to a master's degree are not eligible to be applied to any other graduate degree program.

### Applied Credits to Doctoral Degree Program

There is no limit to the number of credits taken at the graduate certification level at MSU that can be applied to a doctoral degree program, with approval of the student's doctoral guidance committee. Credits applied to a doctoral degree are not eligible to be applied to any other graduate degree program.

## JOINT DEGREE PROGRAM

A joint degree program is a graduate program of study offered collaboratively by Michigan State University and at least one other domestic or international institution in order to award a single degree issued in the names of the participating institutions.

For a joint degree, there is one diploma with the seal of each institution.

For a joint degree, each transcript would carry a notation to indicate the awarding of the joint degree.

## MASTER'S PROGRAMS

Graduate programs leading to a master's degree are offered by most colleges, departments and schools at Michigan State University. A student's program of study is administered by the officially designated unit and is subject to approval by the dean of the college. Some variations exist in the requirements of the several master's degree programs. It is important, therefore, for the student to become acquainted with all of the applicable university and unit requirements. The following description covers the all-university requirements, and most of the regulations, and will serve as a general guide.

### Master's Degrees Granted at Michigan State University and Minimum Credit Requirements

Following is a list of titles of master's degrees granted at Michigan State University.

|  |           |
|--|-----------|
| Master of Arts                                   | M.A.      |
| Master of Arts for Teachers                      | M.A.T.    |
| Master of Business Administration                | M.B.A.    |
| Master of Fine Arts                              | M.F.A.    |
| Master of International Planning Studies         | M.I.P.S.  |
| Master of Human Resources<br>and Labor Relations | M.H.R.L.  |
| Master of Music                                  | M.Mus.    |
| Master of Science in Nursing                     | M.S.N.    |
| Master of Public Policy                          | M.P.P.    |
| Master of Science                                | M.S.      |
| Master of Social Work                            | M.S.W. I  |
| Master of Social Work                            | M.S.W. II |
| Master in Urban and Regional Planning            | M.U.R.P.  |

### Credit Requirements

The minimum number of credits required for a master's degree program is 30 beyond the bachelor's degree. Specific, approved programs, however, have different credit requirements. See the specific program sections in this catalog.

### Residence

A minimum of 6 credits in the degree program must be earned in residence on the East Lansing campus or at approved Michigan State University instructional sites, but many programs require more. Requests for waivers of this requirement must be submitted by the department or school responsible for the degree program to the appropriate college and then to the Dean of the Graduate School.

Certain off-campus and online master's programs do not require the minimum residence. Contact the department, school, or college offering a specific program for additional information.

### Planning a Master's Program and the Appointment of an Academic Advisor

An academic advisor for each student is assigned by the responsible unit in which the student takes the major work. The advisor alone, or in consultation with the student's advisory committee, will assist the student in planning a program satisfactory to the needs of the student and acceptable to the responsible unit. Changes in program plans may be made only with the approval of both the advisor and the responsible unit administrator, and, in some cases, the dean of the college.

### Programs of Study

Two types of programs are available:

- Plan A** consisting of prescribed course work, research, thesis, and a final oral examination.
- Plan B** consisting of prescribed course work, without a thesis, and with a final examination or evaluation.

Some colleges, departments, and schools offer programs only under Plan A or only under Plan B. Unless such limitation is explicitly stated in the catalog description of a program, both Plan A and Plan B are available.

### Course Work

Courses taken toward a master's degree should fit into a unified plan aimed at providing the student with both a comprehensive background and a depth of understanding in a major field. The number of course credits required in a major area is determined by each responsible unit. Some programs require a minor. Whether a minor area of study is required, optional, or not accepted toward a degree depends on the student's major program. In any case, the detailed course requirements are left to the judgment of the academic advisor and/or committee subject to the approval of the responsible unit administrator and the dean of the college. *More than half of the credits of the total required for a master's degree must be taken in courses at the 800 and 900 levels except as specifically exempted by the dean of the college.*

### Research and Thesis Plan A

A minimum of 4 credits in master's thesis research (course number 899) is required; some programs require more. The thesis, an abstract of the thesis, and an abstract title page must be prepared in accordance with the specifications in *The Formatting Guide-Master's Theses and Doctoral Dissertations*, a handbook that is available, along with a packet of required forms relating to the thesis online at [www.grad.msu.edu/etd](http://www.grad.msu.edu/etd).

After the thesis advisor—and, if required by unit bylaws, members of the guidance or examination committee—indicate(s) that the thesis is acceptable for examination within the time frame determined by the department the semester in which graduation is anticipated, the student must submit copies of the thesis and abstract for distribution to the thesis advisor and other examiners. The thesis must be in completed form, with finished diagrams, etc. It must not, however, be bound. The oral examination in defense of the thesis must be scheduled within the time frame determined by the department the semester in which graduation is anticipated. After the examiners have reviewed and approved the thesis and voted to pass the student on the final oral examination in its defense, the student must incorporate into the thesis any recommended change(s) and corrections before presenting it to the thesis advisor for final review and signature of the approval form. *Not later than the deadline date indicated by the Graduate School the semester in which graduation is expected*, the student must submit to the Graduate School a final electronic copy of the thesis online and the approval form signed by the thesis advisor, following the instructions at <https://grad.msu.edu/etd/electronic-submission-to-proquest>. Some departments, schools, or colleges require additional copies of the thesis, and it is the student's responsibility to provide such copies to them. In some colleges the master's thesis is first approved in the dean's office before the student submits it to the Graduate School.

An electronic copy of the thesis will reside in the MSU library and the abstract will be published online at [www.proquest.com](http://www.proquest.com) under *Master's Abstracts*. The student may order bound paper

copies for the department, the thesis director, or others through ProQuest-UMI, or may make other arrangements for obtaining additional bound copies.

A fee is charged by ProQuest-UMI if the thesis is to be copyrighted.

### Examinations

Students in a **Plan A** master's degree program are required to pass an oral examination in defense of the thesis. However, students in certain programs are required to pass an oral examination that covers both a defense of the thesis and course work. *This examination must be scheduled within the time frame determined by the department the semester in which graduation is anticipated.* The examination for a Plan A master's degree is administered by an examining committee consisting of at least three Michigan State University regular faculty members (as defined in the *Faculty Handbook*).

"The 'regular faculty' of Michigan State University shall consist of all persons appointed under the rules of tenure and holding the rank of professor, associate professor, assistant professor, or instructor, and persons appointed as librarians. In addition, the principal administrative officer of each major educational and research unit of the university shall be a member of the 'regular faculty.'"

An exception may be granted by the Dean of the Graduate School to allow a non-tenure stream faculty member or an Academic Specialist to serve on a master's student's examination committee as one of the three required faculty members, or, in special circumstances, as the chairperson of a master's student's examination committee or as the thesis advisor. With the approval of the chairperson or director of the department or school, an exception may be granted to allow an Emeritus faculty member to serve as one of the three required faculty members on a master's student's examination committee; in addition, an Emeritus faculty member may continue to serve as the chairperson of an examination committee. At the discretion of the examining committee, the presentation and defense of the thesis may be open to members of the academic community. The thesis and the student's performance on the oral examination must be approved by a majority vote of the examining committee.

A final examination or evaluation is required for students in a **Plan B** master's degree program with the following exceptions: the Plan B programs of study that lead to the Master of Business Administration degree, the Master of Human Resources and Labor Relations degree, the Master of Social Work degree, and the Master of Science degree in Accounting. The examination or evaluation is administered in accordance with department or school and college rules by a committee consisting of at least two Michigan State University regular faculty members (as defined in the *Faculty Handbook*).

"The 'regular faculty' of Michigan State University shall consist of all persons appointed under the rules of tenure and holding the rank of professor, associate professor, assistant professor, or instructor, and persons appointed as librarians. In addition, the principal administrative officer of each major educational and research unit of the university shall be a member of the 'regular faculty.'"

An exception may be granted by the Dean of the Graduate School to allow a non-tenure stream faculty member or an Academic Specialist to serve on a master's student's committee as one of the two required faculty members, or, in special circumstances, as the chairperson of a master's student's committee. With the approval of the chairperson or director of the department or school, an exception may be granted to allow an Emeritus faculty member to serve as one of the two required faculty members on a master's student's committee; in addition, an Emeritus fac-

ulty member may continue to serve as a chairperson of a committee. In the event of significant discrepancy between the two assessments, the unit chair or coordinator would arrange for a third assessment to break the tie. The content and format of the examination or evaluation are specified by the department or school and college.

For both **Plan A** and **Plan B**, the student must be registered during the semester in which the examination or evaluation is administered (see *Maximum and Minimum Credits*). This requirement may be waived if the examination is administered during the summer session immediately following a spring semester during which the student was registered and/or prior to a fall semester in which the student will be registered.

### Academic Standards

Michigan State University is committed to high academic standards and expects all graduate students to excel in their particular majors.

A 3.00 cumulative grade-point average for all courses counting toward the master's degree is the minimum university standard; however, colleges, departments, or schools may establish a higher minimum standard.

Each college and department or school determines whether the minimum standards must be attained at the completion of a certain number of credits or by a specified interval after the student's first enrollment in the degree program. Some colleges, departments, and schools will not permit a student to remain in a program if there is an accumulation of more than a specified number of graduate credits with lower than a 3.0 grade even though the cumulative grade-point average is 3.00. A student who fails to meet the standards set by the university, college, and department or school will not be permitted to continue to enroll in the degree program, and appropriate action will be taken by the college, department, or school.

### Transfer Credits

As many as 9 semester credits of graduate course work (excluding research and thesis credits) may be transferred into a 30-credit master's degree program from other postsecondary accredited institutions comparable academic quality, if they are appropriate to a student's program and provided they were completed within the time limits approved for the earning of the degree desired at Michigan State University. The department or school chairperson or director and dean must grant approval. Only courses in which at least a 3.0 grade or its equivalent was received will be considered for transfer. Exceptions to this policy (at least a 2.0 grade) have been granted for the dual degree programs between Michigan State University and the Michigan State University College of Law. Some colleges with programs that require more than 30 credits for the degree may accept more than 9 credits in transfer, but not more than 30% of the total number of credits required for the master's degree may be accepted in transfer.

Students in any master's program may apply a maximum of 9 credits earned through any combination of courses taken through lifelong education, or in transfer from another institution. Each program may determine if courses are appropriate for the master's program and may allow fewer than 9 credits to be applied to the specific master's program.

For programs requiring greater than 30 credits, the limit on the number of credits transferable from lifelong education remains 9.

Michigan State University will allow the College of Education or any other college to recommend the acceptance of up to 6 credits toward a Michigan State University master's degree if these credits are recognized on an official American Council on Education

## GRADUATE EDUCATION

### Master's Programs

(ACE) transcript showing completion of the National Board Professional Teaching Standards Certification.

See *Credits in the General Information, Policies, Procedures and Regulations* section of this catalog for additional information.

#### Off-Campus Work

Credit for courses taken at Michigan State University off-campus instructional centers is of equal value to credit for on-campus courses. However, for the master's degree at least 6 credits must be earned in residence on the East Lansing campus or at approved Michigan State University instructional sites, although some programs may require more. A student who plans to take off-campus courses should discuss the possibilities of acceptance of such work toward the degree with the academic advisor, department or school chairperson or director, or dean. Such approval should be obtained before enrolling in an off-campus course, just as is done for an on-campus course.

#### Online Learning

The university offers selected degree programs (primarily, professional master's degree programs), certificate programs, and individual courses online. All university regulations, policies, and procedures described in this catalog that apply to on-campus programs also apply to online programs, unless specified otherwise. For more information about online learning, visit the web at <https://reg.msu.edu/UCC/OnlinePrograms.aspx>.

Michigan State University courses offered online are considered on-campus courses. Applicability of specific online Michigan State University courses is determined by the requirements of specific programs.

#### Time Limit

Unless otherwise specified, the time limit for the completion of the requirements for the master's degree is five calendar years from the date of enrollment in the first course included for degree certification. The colleges of Arts and Letters, Human Medicine, Natural Science, Nursing, Osteopathic Medicine, Social Science, and Veterinary Medicine permit six years with the following exception: the time limit for the completion of the Master of Fine Arts degree in the College of Arts and Letters is nine years.

Michigan State University must reserve the right to modify or eliminate programs that are described in this publication. In the event such an action is taken, students affected will be advised by their units of the options available to them to complete their degrees. Every reasonable effort will be made to permit students to complete these programs or similar programs.

### REQUIREMENTS FOR A SECOND, JOINT, OR DUAL MASTER'S DEGREE

A candidate for a second master's degree, or for joint or dual master's degrees, from Michigan State University may request the application of up to 9 credits, appropriate to both programs, from the first master's degree program to the second or from one master's program to another. These 9 credits must have been earned within the time limitations of the college concerned. Credits used to satisfy the requirements of one master's degree may not be used to satisfy the residency requirements of another master's degree. The candidate must obtain written approval from both programs indicating which 9 credits will be shared. Some colleges with programs that require more than 30 credits for the master's degree may apply more than 9 credits toward the master's degree

but not more than 30% of the total number of credits required for the master's degree. Credits applied to a Second, Joint, or Dual Master's Degree Program are not eligible to be applied to any other graduate degree program.

### REQUIREMENTS FOR A LINKED BACHELOR'S-MASTER'S DEGREE

A candidate for a Linked Bachelor's-Master's Degree from Michigan State University may request the application of up to 9 credits toward the master's program for qualifying 400-level and above course work taken at the undergraduate level at Michigan State University or another postsecondary accredited institution of comparable academic quality. The number of approved credits, not to exceed 9, are applied toward the credit requirement of the master's degree. Some colleges with programs that require more than 30 credits for the master's degree may apply more than 9 credits toward the master's degree but not more than 30% of the total number of credits required for the master's degree. Credits applied to the Linked Bachelor's-Master's Program are not eligible to be applied to any other graduate degree program.

### REQUIREMENTS FOR A JOINT MASTER'S DEGREE AND MEDICAL DEGREE

A student who is enrolled in a graduate-professional program in Michigan State University's College of Human, Osteopathic, or Veterinary Medicine, and who is also enrolled in a master's degree program at Michigan State University may request the application of up to 9 credits, appropriate to both programs, from the graduate-professional program to the master's degree program, as well. These credits must have been earned within the time limit for completing the master's degree program in which the student is enrolled. Some college's with programs that require more than 30 credits for the master's degree may apply more than 9 credits toward the master's degree but not more than 30% of the total number of credits required for the master's degree if approved by the master's degree and graduate-professional degree program. Credits applied to a Joint Master's Degree and Medical Degree Program are not eligible to be applied to any other graduate degree program.

### EDUCATIONAL SPECIALIST PROGRAM

For information about the Educational Specialist program, refer to the *Educational Specialist* statement in the College of Education section of this catalog.

## DOCTORAL PROGRAMS

Michigan State University offers programs leading to the degrees of Doctor of Education (Ed.D.), Doctor of Nursing Practice (D.N.P.), Doctor of Philosophy (Ph.D.), Doctor of Musical Arts (D.M.A.), Doctor of Medicine (M.D.), Doctor of Osteopathic Medicine (D.O.), and Doctor of Veterinary Medicine (D.V.M.).

Programs of study for doctoral degrees are administered by guidance committees, departments, schools, divisions, and colleges subject to policies approved by the University Committee on Graduate Studies.

Specific information about the programs leading to doctoral degrees offered by the colleges of Education, Human Medicine, Nursing, Osteopathic Medicine, Veterinary Medicine, and the

College of Law may be obtained from the specific college sections of this catalog. The following information applies only to the Ph.D. and D.M.A. degrees.

### Credit Requirements

Normally six or more semesters of study and research beyond the bachelor's degree are needed to complete a Ph.D. or D.M.A. program, although time is less important than scholarly achievement. The minimum number of courses or course credits required for a doctoral degree is determined by individual colleges and/or departments or schools.

### Residence

One year of residence on campus after first enrollment for doctoral degree credit is required to permit the student to work with and under the direction of the faculty, and to engage in independent and cooperative research utilizing university facilities. A year of residence will be made up of two consecutive semesters, involving the completion of credits at the level of full-time status of graduate work each semester.

### Planning a Doctoral Program and Appointment of a Guidance Committee

Each graduate student admitted to a doctoral program has the responsibility to form a guidance committee with the approval and the assistance of the department or school chairperson or director or designated representative. The guidance committee will consist of at least four Michigan State University regular faculty at least three of whom, including the committee chairperson, possess an earned doctoral degree, preferably of the same type that the student is seeking (for example, Ph.D.). For the D.M.A. degree, the guidance committee will consist of at least four regular MSU faculty, at least two of whom, including the committee chairperson, possess the D.M.A. degree. As defined in the *Faculty Handbook*: "The 'regular faculty' of Michigan State University shall consist of all persons appointed under the rules of tenure and holding the rank of professor, associate professor, assistant professor, or instructor, and persons appointed as librarians. In addition, the principal administrative officer of each major educational and research unit of the university shall be a member of the 'regular faculty.'"

An exception may be granted by the Dean of the Graduate School to allow a non-tenure stream faculty member or an Academic Specialist to serve on a doctoral student's guidance committee as one of the four required faculty members, or, in special circumstances, as the chairperson of a doctoral student's guidance committee. With the approval of the chairperson or director of the department or school, an exception may be granted to allow an Emeritus faculty member to serve as one of the four required faculty members on a doctoral student's guidance committee; in addition, an Emeritus faculty member may continue to serve as the chairperson of a guidance committee. More than four persons may be members of the guidance committee. Persons who are not Michigan State University regular faculty who can contribute to the student's program may serve as members of the guidance committee and assist in the work of the committee, providing that the number of such persons does not exceed the number of regular faculty on the committee. In consultation with the student, the guidance committee plans the entire program, including examinations, and thereafter supervises it, making modifications as needed until the degree is completed.

The guidance committee shall be formed no later than the third semester of doctoral study, or within two semesters beyond the master's degree or its equivalent. Within one semester after the committee has met, the student shall initiate and submit for ap-

proval a Ph.D. Degree Plan via GradPlan, listing all agreed upon degree requirements. This Plan, as changed or amended in full consultation between the graduate student and the committee and approved by the appropriate department or school chairperson or director and the dean of the college, shall be regarded as the official statement of program requirements. GradPlan user guides can be found at <https://grad.msu.edu/gradplan>. To start a Ph.D. Degree Plan go to <https://grad.msu.edu/gradplan>.

The Ph.D. Degree Plan includes course requirements and comprehensive exam areas, with a timetable, and a tentative dissertation topic. The committee also recommends whether to accept any graduate credit beyond the master's degree level that was taken at other institutions; whether any study may be done *in absentia*, and under what conditions; what language examinations or alternative program, if any, the student must complete; and which member of the committee should later direct the research that is to form the basis of the student's dissertation.

Once designated, the guidance committee has the responsibility to meet periodically to oversee the graduate student's progress for as long as the graduate student continues in good standing. Any desired or required changes in the membership of the guidance committee may be made by the graduate student with the concurrence of the unit chairperson or director or designated representative, or by the unit with the concurrence of the graduate student in accordance with university, college, and unit policy. The membership of the guidance committee, with the concurrence of the graduate student, may be changed as appropriate to the dissertation topic. Guidance committee chairpersons on leave shall provide for the necessary guidance of their advisees during their absence.

The guidance committee is responsible for insuring the adequacy of the overall program, in keeping with the general policy that six or more semesters of study and research beyond the bachelor's degree are required.

### Program of Study

During the course of study leading to the completion of the doctorate, a student will meet university, college, and department or school requirements, including:

1. taking certifying or qualifying examinations as required by the department, school, or college.
2. completing courses in the major and related fields as prescribed by a guidance committee.
3. fulfilling any college or departmental or school language requirements.
4. meeting the academic standards, including maintaining a 3.00 cumulative grade-point average, required by university, college, and department or school policies.
5. passing doctoral comprehensive examinations covering the major and related fields.
6. preparing a dissertation that is acceptable to the guidance committee and that is based on original research which makes a significant contribution to knowledge.
7. passing a final oral examination in defense of the dissertation.

### Examinations Other Than Comprehensives

Certain colleges, departments, or schools may require that a student early in the program take some form of certifying or qualifying examination. The results are used to determine if the student should be encouraged to proceed in a doctoral program, and, if so, to determine any weakness that exists in background knowledge which may be strengthened by including appropriate courses in the doctoral program.

## GRADUATE EDUCATION Doctoral Programs

### Course Requirements

Courses (in addition to those numbered 999 Doctoral Dissertation Research) will be prescribed by the guidance committee to insure that the student will have a comprehensive knowledge of a major field and related subjects. The courses that a student is required to complete will depend upon prior academic background in relation to the selected graduate program.

### Doctoral Comprehensive Examinations

When the prescribed course work is substantially complete as defined by the guidance committee, the doctoral student is eligible to take the comprehensive examinations covering the major and related fields. At least one component of the comprehensive examinations must be written and must be maintained in the department or school office for three years. Colleges, departments, or schools may also require an oral component. Students must be registered during the semester(s) in which they take comprehensive examinations (see *Maximum and Minimum Credits*). This requirement may be waived if the examination is administered during the summer session immediately following a spring semester during which the student was registered and/or prior to a fall semester in which the student will be registered.

Scheduling, composing, and evaluating the comprehensive examinations is done in accordance with college, department, and school policy. In the case of a comprehensive examination that consists of more than one part, the date that the student passes the examination is the date on which he or she passes the final component of the comprehensive examination. The department, school, or college shall make available to doctoral students upon matriculation a written explanation of comprehensive examination procedures. The comprehensive examinations must be completed before an oral defense of the dissertation can be scheduled.

For the Doctor of Philosophy and the Doctor of Musical Arts degrees, all of the comprehensive examinations must be passed within five years and all remaining requirements for the degree must be completed within eight years from the time the first class that is used to fulfill the degree requirements for his or her doctoral program of study is taken.

### Research

Each student working toward a Doctor of Philosophy degree must conduct original research upon which a dissertation which makes a significant contribution to knowledge is to be prepared and published. The research is to be under the direction of and acceptable to the guidance committee. All doctoral students must register for and successfully complete a minimum of 24 credits and **no more than a total of 36 credits** of doctoral dissertation research (course number 999). For additional information see *Costs* in the *General Information, Policies, Procedures and Regulations* section of this catalog.

It is a policy of Michigan State University to permit and facilitate dissertation research by students from developing nations in their home countries, whenever feasible.

### Dissertation and Abstract

The dissertation and an abstract of the dissertation must be prepared in accordance with the specifications in the *Formatting Guide—Master's Theses and Doctoral Dissertations*, a handbook that is available, along with a packet of required forms relating to the dissertation online from [www.grad.msu.edu/etd](http://www.grad.msu.edu/etd).

After the guidance committee chairperson—and, if required by unit bylaws, other members of the guidance committee—indicate(s) that the dissertation is acceptable for examination, and

not later than the date determined by the department the semester in which graduation is anticipated, the student must submit copies of the dissertation and abstract for distribution to the guidance committee chairperson, other guidance committee members, and, if necessary, to any appointed examiner. The inclusion of a "public" abstract written in non-technical language is highly recommended. The dissertation must be in completed form, with finished diagrams, etc. It must not, however, be bound. After the guidance committee and any appointed examiner have reviewed and approved the dissertation and after the student has passed the final oral examination in its defense, the student must incorporate into the dissertation any recommended change(s) and corrections before presenting it to the chairperson of the guidance committee for final review and signature of the approval form. *Not later than the deadline date indicated by the Graduate School for the semester in which graduation is expected*, the student must submit to the Graduate School a final *electronic* copy of the dissertation online and the approval form signed by the dissertation advisor following the instructions online at <https://grad.msu.edu/etd/electronic-submission-to-proquest>. Some departments, schools, or colleges require bound paper copies of the dissertation, and it is the student's responsibility to provide such copies to them.

### Final Oral Examination

The final oral examination in defense of the dissertation is conducted and evaluated by the guidance committee and, at the discretion of the dean of the college, by one appointed faculty member whose voting status is determined by the college. Other interested faculty members and members of the public may attend the presentation portion of the examination without vote. Only guidance committee members may attend the examination portion of the defense per individual unit guidelines. The dissertation and the student's performance on the final oral examination must be approved by a positive vote by at least three-fourths of the voting examiners and with not more than one dissenting vote from among the Michigan State University regular faculty members of the guidance committee.

The final oral examination must be scheduled for a date not earlier than two weeks after the dissertation and abstract have been submitted to the chairperson of the guidance committee, other guidance committee members, and any appointed examiner. The student must be registered during the semester in which the final oral examination is taken. See *Maximum and Minimum Credits* in this section of the catalog.

### Publication of Dissertation

An electronic copy of the dissertation will reside in the MSU library. The abstract will be published online under *Dissertation Abstracts*, at [www.proquest.com](http://www.proquest.com). The student may order bound paper copies for the department, the school, the director, or others through ProQuest-UMI or may make other arrangements for obtaining bound paper copies.

An extra fee is charged by ProQuest-UMI if the dissertation is to be copyrighted.

### Academic Standards

Michigan State University is committed to high academic standards and expects all doctoral students to excel in their programs of study.

A 3.00 cumulative grade-point average in the degree program is the minimum university standard, but colleges, departments, or schools may establish a higher minimum standard. However, attainment of the minimum grade-point average is in itself an insuff-

ficient indicator of potential for success in other aspects of the program and in the field. The guidance committee and academic unit are jointly responsible for evaluating the student's competency (as indicated by, e.g., grades in core and other courses, research performance, and development of professional skills) and rate of progress (as indicated by, e.g., the number of courses for which grades have been assigned or deferred). Written evaluations shall be communicated to the graduate student at least once a year, and a copy of such evaluations shall be placed in the graduate student's file. A student whose performance does not meet the standards of quality will not be permitted to continue to enroll in the degree program, and appropriate action will be taken by the college, department, or school.

### Transfer Credits

Graduate credits may be transferred from other postsecondary accredited institutions of comparable academic quality if they are appropriate to a student's program and provided they were completed within the time limits approved for the earning of the degree desired at Michigan State University. The department or school chairperson or director and dean must grant approval. Only graduate-level courses in which at least a 3.0 (B) grade was received will be considered for transfer. Exceptions to this policy (at least a 2.0 grade) have been granted for the dual degree programs between Michigan State University and the Michigan State University College of Law.

### Applied Credits to Master's Degree

A student who is enrolled in a doctoral program and who is also enrolled in a master's degree program at Michigan State University may request the application of up to 9 credits, appropriate to both programs, from the doctoral program to the master's degree program, as well. Some colleges with programs that require more than 30 credits for the master's degree may apply more than 9 credits toward the master's degree but not more than 30% of the total number of credits required for the master's degree. These credits must have been earned within the time limit for completing the master's degree program in which the student is enrolled.

See *Credits* in the *General Information, Policies, Procedures and Regulations* section of this catalog for additional information.

### Work in Absentia

Candidates for the doctoral degree may, with the approval of the guidance committee, carry on some of the work *in absentia*. Arrangements for registration may be made by applying at the office of the dean of the appropriate college.

### Time Limit

For the Doctor of Philosophy and the Doctor of Musical Arts degrees, all of the comprehensive examinations must be passed within five years and all remaining requirements for the degree must be completed within eight years from the time when a student begins the first class at Michigan State University that appears on his or her doctoral program of study. Application for extensions of the eight-year period of time toward degree must be submitted by the department/school for approval by the dean of the college and the Dean of the Graduate School. Upon approval of the extension, doctoral comprehensive examinations must be passed again.

### Dual Major Doctoral Degrees

All dual major doctoral degrees must be approved by the Dean of the Graduate School. A request for the dual major degree must be submitted via GradPlan within one semester following its development and within the first two years of the student's enrollment at Michigan State University. The following conditions must prevail.

1. The intent to receive the degree in two areas must be outlined in the guidance committee report.
2. The Ph.D. Degree Plan must reflect the required standards for both departments.
3. The integrated course work must be satisfactory to both departments.
4. The comprehensive examination must be passed to the satisfaction of both departments.
5. A guidance committee including members from both departments must be satisfied that the dissertation represents a contribution meeting the usual standards in both areas.
6. There must be a single dissertation that represents an integration of the disciplinary areas.
7. Responsible Conduct of Research requirements will be as defined and approved by the guidance committee in accordance with the University RCR requirements.

### Special Programs

The following regulations pertain to (1) students who hold a Doctor of Philosophy (Ph.D.) degree and wish to pursue a second Ph.D. program, or who wish to pursue two Ph.D. programs simultaneously, and (2) students who hold a professional doctoral degree (e.g., M.D., D.O., D.V.M.) and wish to pursue a Ph.D. program, or who wish to pursue a professional doctoral program and another doctoral degree program simultaneously.

1. Admission is determined by the respective college(s), department(s), or school(s), within current university guidelines.
2. A guidance committee composed of a chairperson and at least three additional members is appointed by the unit in which the student is enrolled, and the academic program is developed in consultation with the student.
3. The request for the academic program must be submitted via GradPlan to the Graduate School, within one month following its development by the guidance committee, for review and approval. The Ph.D. Degree Plan must be complete.
4. The Graduate School review includes appropriateness of the guidance committee membership, the academic program, and courses or credits applied to the two programs.

### DOCTOR OF EDUCATION

For information about the Doctor of Education program, refer to the *Doctor of Education* statement in the *College of Education* section of this catalog.

### DOCTOR OF MUSICAL ARTS

For information about the Doctor of Musical Arts program, refer to the *Doctor of Musical Arts* statement in the *College of Music* section of this catalog.

### DOCTOR OF NURSING PRACTICE

For information about the Doctor of Nursing Practice program, refer to the *Doctor of Nursing Practice* statement in the *College of Nursing* section of this catalog.

## BIG TEN ACADEMIC ALLIANCE COURSESHARE

Graduate students at Michigan State University are eligible to participate in the CourseShare program, sponsored by the Big Ten Universities Academic Alliance.

CourseShare is a system for sharing specialized and unique courses among Big Ten universities. Courses taught using technology have been targeted for CourseShare, but face-to-face courses, particularly those taught in a non-traditional format such as summer intensive sessions or weekend seminars are also candidates.

Online and other non-traditionally delivered courses that are inter-institutionally shared will be determined and agreed upon by the deans of the participating academic departments. It is most likely that CourseShare courses will focus on sharing graduate and other very specialized courses not offered at every institution.

A graduate student from Michigan State University who enrolls in a CourseShare course will be registered on the Michigan State University campus, and fees will be collected and kept by this institution. No additional fees will be charged. Credit for work taken under this program will be accepted at this University.

A graduate student interested in this program should contact the Graduate School for instructions and formal processing.

## BIG TEN ACADEMIC ALLIANCE TRAVELING SCHOLAR PROGRAM

Doctoral students at Michigan State University are eligible to apply for admission to the "Traveling Scholar Program," sponsored by the Big Ten Universities Academic Alliance.

The Traveling Scholar program enables selected doctoral students to take advantage of special facilities available on the campus of one of the participating universities but not available on the home campus. Such facilities include special course offerings, research opportunities, laboratories, and library collections. Students participating in this program, known as "Traveling Scholars," are limited to two semesters or three quarters on another campus.

A Traveling Scholar from Michigan State University will be registered on the Michigan State University campus, and fees will be collected and kept by this institution. No additional fees will be charged. Credit for work taken under this program will be accepted at this University.

A doctoral student interested in this program should contact the Graduate School for instructions and formal processing.

## MICHIGAN INTERCOLLEGIATE GRADUATE STUDIES PROGRAM

The Michigan Intercollegiate Graduate Studies (MIGS) Program enables graduate students of Michigan institutions offering graduate degree programs to take advantage of unique educational opportunities at other Michigan institutions offering graduate degrees.

Any graduate student in good standing in a master's, educational specialist, or doctoral degree program is eligible to participate. Students on a MIGS enrollment pay tuition and other fees at the host institution for the services rendered. All credits earned under a MIGS enrollment are accepted by a student's home institution as if offered by that institution. This type of enrollment is limited to one semester for master's or educational specialist degree students, and two semesters for doctoral degree students.

Students interested in this program should contact the Graduate School for further information and instructions or visit [grad.msu.edu/migs](http://grad.msu.edu/migs).

## INTERDEPARTMENTAL PROGRAMS

### DOCTORAL PROGRAM IN ENVIRONMENTAL AND INTEGRATIVE TOXICOLOGICAL SCIENCES

The purpose of the Doctoral Program in Environmental and Integrative Toxicological Sciences (EITS) is to provide students with excellent training in a basic science discipline and training and credentials in environmental and integrative toxicological sciences. Students accepted into one of several partnering disciplinary Doctor of Philosophy degree programs (e.g., biochemistry and molecular biology, genetics) may apply subsequently for admission to the environmental and integrative toxicological sciences program. Students who complete this multidisciplinary course of study earn the Ph.D. degree in a basic science discipline with a dual major in environmental toxicology.

The disciplinary programs that cooperate with the environmental and integrative toxicological sciences program are listed below. Each is represented by training faculty affiliated with Michigan State University's Institute for Integrative Toxicology, through which the Doctoral Program in Environmental and Integrative Toxicological Sciences is administered. The program allows students substantial flexibility in choosing areas of study. Each student's course of study is planned with that individual's particular interests, capabilities, and professional goals in mind. For each multidisciplinary doctoral program, the student must meet the requirements for the partnering disciplinary program and the requirements for the environmental toxicology dual major.

In partial fulfillment of the environmental toxicology major, the student must complete either the environmental toxicology track, the food toxicology and ingredient safety track, or the biomedical toxicology track. Course requirements for the biomedical toxicology track are designed for doctoral students in biomedical disciplines. The food toxicology and ingredient safety track requires courses in toxicology and risk assessment and regulation of food-borne ingredients. Course requirements for the environmental toxicology track are designed for doctoral students in engineering, chemistry and other fields who may have less background in mammalian biology. When all requirements for the degree have been met, both the chairperson of the department or program that administers the student's disciplinary major and the director of the Doctoral Program in Environmental and Integrative Toxicological Sciences program will recommend the student for the degree.

Where course requirements for a disciplinary major and for the environmental toxicology major overlap, a given course may be counted toward both requirements.

In addition to meeting the requirements of the university and of the department and college in which the student is enrolled, the student must meet the requirements specified below.

### Admission

A student must be accepted for graduate study in one of the departments or programs listed below before applying for admission to the Doctoral Program in Environmental and Integrative Toxicological Sciences. Admission requires the approval of the environmental and integrative toxicological sciences graduate committee and the program director. A student seeking admission must have earned at least a bachelor's degree; have completed, with a minimum grade-point average of 3.0, sufficient credits in the biological, chemical, and physical sciences to indicate probable success in the program; and have a thesis project



related to toxicology, and guidance committee members affiliated with the Institute for Integrative Toxicology. In special cases, an applicant with deficiencies in background courses may be admitted on a provisional basis. Students admitted on a provisional basis will not be considered for an advanced degree until they have fulfilled the provisional requirements.

### **Guidance Committee**

At least two members of the student's guidance committee must be faculty affiliated with the Institute for Integrative Toxicology. At least one member of the committee must be from a department or disciplinary program other than the one that administers the student's disciplinary major.

### **Requirements for the Environmental Toxicology Component of the Doctoral Program in Environmental and Integrative Toxicological Sciences**

1. The topic of the Ph.D. dissertation research must be in the broad area of environmental and integrative toxicological sciences and be acceptable to the environmental and integrative toxicological sciences faculty.
2. The student must complete the requirements for one of the three tracks with a grade-point average of at least 3.0.
3. The student must attend and participate in seminars in toxicological sciences.

The multidepartmental doctoral programs in environmental toxicology are listed below by the units that administer them:

### **College of Agriculture and Natural Resources**

Department of Animal Science  
Animal Science–Environmental Toxicology  
Department of Plant, Soil and Microbial Sciences  
Crop and Soil Sciences–Environmental Toxicology  
Department of Fisheries and Wildlife  
Fisheries and Wildlife–Environmental Toxicology  
Department of Food Science and Human Nutrition  
Food Science–Environmental Toxicology  
Human Nutrition–Environmental Toxicology  
Department of Forestry  
Forestry–Environmental Toxicology

### **College of Natural Science**

Cell and Molecular Biology–Environmental Toxicology  
Genetics and Genome Sciences–Environmental Toxicology  
Neuroscience–Environmental Toxicology  
Department of Biochemistry and Molecular Biology  
Biochemistry and Molecular Biology–Environmental Toxicology  
Department of Chemistry  
Chemistry–Environmental Toxicology  
Department of Earth and Environmental Sciences  
Environmental Geosciences–Environmental Toxicology  
Department of Integrative Biology  
Integrative Biology–Environmental Toxicology  
Department of Physiology  
Physiology–Environmental Toxicology

### **College of Veterinary Medicine**

Comparative Medicine and Integrative Biology  
–Environmental Toxicology  
Microbiology–Environmental Toxicology  
Pathobiology–Environmental Toxicology  
Pharmacology and Toxicology–Environmental Toxicology