

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

# **LSA Bulletin, 2017-18**

## **Requirements & Programs**

*This document is an unofficial representation of the information available on the LSA website.  
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## LSA Academic Calendar, 2017-18

	Fall '17	Winter '18	Spring '18	Summer '18	Spring/Summer
<b>Last day to disenroll from term without fees</b>	September 4, Monday	January 2, Tuesday	April 30, Monday	June 26, Tuesday	April 30, Monday
Classes begin; Disenrollment and registration fees begin to apply	September 5, Tuesday	January 3, Wednesday	May 1, Tuesday	June 27, Wednesday	May 1, Tuesday
<b>Last day... to withdraw</b> (100% tuition waiver less disenrollment and registration fees) <b>for tuition adjustment</b> for a reduced academic load <b>for regular drop/add</b> (no "W" for drop) <b>Pass/fail deadline</b>	September 25, Monday	January 23, Tuesday	May 14, Monday	July 10, Tuesday	May 21, Monday
Authorization needed to drop or add; "W" posted for drops	Beginning September 26, Tuesday	Beginning January 24, Wednesday	Beginning May 15, Tuesday	Beginning July 11, Wednesday	Beginning May 22, Tuesday
Deadline to finish prior incompletes	October 2, Monday	January 30, Tuesday	October 1, Monday	October 1, Monday	October 1, Monday
<b>Last day to withdraw from all classes</b> with a 50% tuition waiver	October 16, Monday	February 12, Monday	May 21, Monday	July 17, Tuesday	June 11, Monday
Begin full fees for students who withdraw	October 17, Tuesday	February 13, Tuesday	May 22, Tuesday	July 18, Wednesday	June 12, Tuesday
<b>Last day for approved late drop/add</b>	November 10, Friday	March 16, Friday	June 1, Friday	July 27, Friday	July 6, Friday
Classes end	December 12, Tuesday	April 17, Tuesday	June 18, Monday	August 14, Tuesday	August 14, Tuesday
Study days	December 13, Wednesday December 16-17, Saturday-Sunday	April 18, Wednesday April 21-22, Saturday-Sunday	June 19-20, Tuesday-Wednesday	August 15, Wednesday	August 15, Wednesday
Examination period	December 14-15, Thursday-Friday December 18-21, Monday-Thursday	April 19-20, Thursday-Friday April 23-26, Monday-Thursday	June 21-22, Thursday-Friday	August 16-17, Thursday-Friday	August 16-17, Thursday-Friday
No Classes	<b>Labor Day Holiday:</b> September 4, Monday	<b>Martin Luther King, Jr. Birthday University Symposia</b> (no regular classes): January 15 Monday	<b>Memorial Day Holiday:</b> May 28, Monday	<b>Independence Day Holiday:</b> July 4, Wednesday	<b>Memorial Day Holiday:</b> May 28, Monday <b>Independence Day Holiday:</b> July 4, Wednesday
Recess	<b>Fall Study Break:</b> October 16-17 Monday-Tuesday <b>Thanksgiving Recess:</b> November 22 (5:00 p.m.), Wednesday through November 27 (8:00 a.m.), Monday	<b>Mid-Winter Recess:</b> February 24 (12:00 noon), Saturday through March 5 (8:00 a.m.), Monday			
Tuition Payments (by 5:00 p.m.)	August 31 Thursday	January 3 Wednesday	April 30 Monday	June 30 Saturday	April 30 Monday
Commencement	December 17, Sunday	April 28, Saturday			
University Honors Convocation		March 18, Sunday			

# LSA Degrees

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



## Degrees and Selection of a Degree Program

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

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

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

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

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

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

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

The **Bachelor of Arts** and **Bachelor of Science** degrees require competency in each major area of knowledge and a deep understanding of at least one subject area. Each student is required also to [achieve competency in the use of the English language](#), to acquire second-year college-level [proficiency in a language other than English](#), to receive credit for an approved course addressing questions on [race and ethnicity](#), and to fulfill the [quantitative reasoning requirement](#). Beyond these general requirements, students are free to choose elective courses to complete a minimum of 120 credits. The difference between the A.B. and B.S. degree is that the B.S. degree requires 60 credits of approved courses in the physical and natural sciences and/or mathematics.

### Credits and Grade Point Average

A student must complete a minimum 120 credits with a cumulative grade point average (GPA) of 2.0 (C) or better (124 for B.S.Chem.). The overall GPA of courses included in the field of the major for an A.B. or B.S. degree or counted toward the 60 credits of upper-level courses required for a B.G.S. degree must be at least 2.0.

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

### First-Year Writing Requirement

The goal of the First-Year Writing Requirement (FYWR) is to prepare students for the type of writing most often assigned and valued in University courses. Students cannot fulfill the requirement through Advanced Placement (AP) scores. The FYWR should be completed in the first year with a minimum grade of C-. The majority of students fulfill the first-year writing requirement through English 125 (Writing and Academic Inquiry) and English 124 (Academic Writing and Literature), but there are a few other courses around the University that also fulfill the requirement. Engineering 100 does not fulfill the FYWR in LSA.

### Upper-Level Writing Requirement

The goal of the Upper-Level Writing Requirement (ULWR) is to teach students to recognize and practice the range of writing activities and forms typical of academic and professional contexts. Students must satisfy the First-Year Writing Requirement before electing one of the courses approved to satisfy the ULWR. A minimum course grade of C- is required in order to satisfy the ULWR. Over the course of the term, students will complete several writing assignments that are related to course content and intended to help students practice the rhetoric of their specific discipline. Possible assignments may include journals, research papers, critical analyses, and/or lab reports. Students will receive feedback on their writing from their ULWR instructor and are expected to revise much of their work throughout the term. Upper-Level Writing Requirement courses offered for a particular term can be found in the LSA Course Guide.

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

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

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

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

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

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

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

### Language Requirement (A.B., B.S., B.S.Chem.)

Students are required to complete fourth-term proficiency in a language other than English, most often by earning credit for the fourth term of a University of Michigan language course. The goal is to offer a means of access to the cultural and intellectual heritage of the world's non-English speaking majority, as well as to provide reflective

understanding of the structure and complexity of English itself. LSA offers over 30 different languages that meet this requirement.

### Area Distribution (A.B., B.S., B.S.Chem.)

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

### Major (A.B., B.S., B.S.Chem.)

The major provides the option for a student to pursue a thorough investigation of a particular subject or discipline. Course requirements of majors offered vary from 24 to 48 credits. In addition to the more than 75 majors offered, a student has the option to develop his or her own major through the [Individualized Major Program \(IMP\)](#).

### Option for Minors (A.B., B.S., B.S.Chem.)

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

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

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

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

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

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

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

### Degree Program

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

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

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

### Chemistry Degree Credit and GPA Requirements

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

### Special Departmental Policies (effective Fall 2015)

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

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

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

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

### Chemistry Degree Course Requirements

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

### Honors Plan in Chemistry

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

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

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

### Requirements needed to complete the Bachelor in General Studies

- [60-Credit Requirement](#)
- [First-Year Writing Requirement](#)
- [Upper-Level Writing Requirement](#)
- [Race & Ethnicity Requirement](#)
- [Quantitative Reasoning Requirement](#)
- [Non-LSA Coursework](#)

## Joint Degrees

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

### Joint Undergraduate Degree Programs

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

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

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

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

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

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

The variety of courses that students may elect in the joint program makes it impractical to list specific requirements. Instead, each student

should consult faculty members and academic advisors in each college to develop the best plan of study. Primary responsibility for planning the academic program and continuing contact with academic advisors in the two fields is assumed by the student, who also is responsible for becoming familiar with the academic policies and procedures of both colleges and the academic requirements and courses in both fields of the major.

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

#### Administrative Regulations

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

#### Joint Degree Program Structure

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

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

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

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

#### **Music (Joint Degree Program in Liberal Arts and Music)**

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

### **Individualized Joint Degree Programs**

A student may be interested in a joint degree program with another school or college even if a joint degree program has not been officially established by the College. Such joint degree programs are planned through the Academic Standards Board. At least 150 credits are required for an individualized joint degree, including at least 100 credits of LSA courses.

A minimum of 30 credits must have been completed on the Ann Arbor campus before a student may apply for an individualized joint degree program, and the cumulative grade point average for work completed on the Ann Arbor campus must be 3.0 or higher. Any exception to these requirements must be approved by the Academic Standards Board.

Students who have been **admitted** to the B.B.A. program in the Stephen M. Ross School of Business may discuss [an individualized joint degree program](#) with the Stephen M. Ross School of Business.

### **Joint Undergraduate-Graduate Degree Programs**

#### **The Concurrent Undergraduate-Graduate Studies Program**

The Concurrent Undergraduate-Graduate Studies (CUGS) Program enables a few students each year to enroll simultaneously in LSA and the Rackham Graduate School and to apply a maximum of 15 credits toward both an undergraduate degree and a graduate degree. See the [CUGS information sheet and election form](#) for more information. The Center for Russian, East European, and Eurasian Studies also offers a [Concurrent Undergraduate-Graduate Study Program](#).

#### **Engineering (Bachelor of Science in Cell and Molecular Biology and Master of Science in Biomedical Engineering)**

The [Department of Molecular, Cellular, and Developmental Biology \(MCDB\)](#) in the College of LSA and the [Department of Biomedical Engineering](#) in the [College of Engineering](#) administer a five-year program awarding a concurrent B.S. degree in Cell and Molecular Biology from the College of LSA and an M.S. in Biomedical Engineering from the Rackham Graduate School upon completion of all [program requirements](#). A student will apply to both the Department of Molecular, Cellular, and Developmental Biology and the Department of Biomedical Engineering for entrance. A student will be admitted into the program only after completing the first year of the concentration

prerequisites (BIOL 162, CHEM 210/211, PHYSICS 135/136 or 140/141, MATH 115 and 116) with a GPA of 3.2 or higher.

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

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

#### **Information (Bachelor of Arts/Bachelor of Science in Linguistics and Master of Science in Information)**

The [School of Information \(SI\)](#) offers an accelerated program for exceptional undergraduates at the University of Michigan. The program enables students in the [Department of Linguistics](#) to complete both a bachelor's degree and the two-year Master of Science in Information (M.S.I.) degree in five years of study. The School of Information will select candidates for this program during their junior year. The A.B./B.S. degree is normally awarded at the end of the senior year (the first year of study in the School of Information) and the M.S.I. degree after completion of its requirements (normally after a second year of graduate study).

In addition, applicants for the joint degree program must show an academic record that is consistent with the demands of completing six years of course work in five years. This means that accelerated degree applicants must be at or above the norm for the regular entering class at the School of Information, in terms of maturity, GPA, and GRE scores.

Further information can be found under the departmental program statement of the Department of Linguistics, or by visiting the School of Information, 304 West Hall, or the [SI's website](#). Interested undergraduates should begin consultation in the sophomore year when they declare their linguistics major. A separate application to the School of Information is made in the fall academic term of the junior year and is reviewed as part of the regular admission process by the School of Information. Applicants will be notified of the School of Information's decision before the registration deadline in the winter academic term.

Students must satisfy the normal requirements for both the bachelor's and the M.S.I. programs, but any course they take that satisfies a requirement for the bachelor's and also satisfies a requirement for the M.S.I. can be used to satisfy both requirements simultaneously. By taking 24 credit hours of courses that are "double-counted" in this fashion, it is possible to eliminate a year from the normal course of study. In particular, several designated courses taught in the School of Information and the Department of Linguistics satisfy requirements for both degrees. See the official list of courses for details.

To qualify for admission to the [School of Information](#) under the accelerated program, students need to show that, given the double counting provision, they will be able to complete the LSA and linguistics

requirements for the bachelor's by the end of the fourth year, while also completing the usual first-year coursework for the M.S.I.

### Public Health and Liberal Arts (Bachelor's Degree and Master of Public Health)

Bachelor's Degree and Master of Public Health

**Eligibility:** Students should be advanced enough to complete their major as well as all general College requirements by the end of their junior year. Minimum eligibility requirements are:

- Must have completed a minimum of 100 credits by the end of their junior year, thus enabling them to graduate in the fall term of their senior year.
- Must have a 3.5 GPA at the time of application.

**Admission Process:** Students who show enough progress toward completing their undergraduate degree are eligible to apply to the graduate program in the second term of their junior year. Students must first get a recommendation letter of support to the program from:

- LSA students — from the [assistant dean for student academic affairs](#)
  - *dean's recommendation/certification form* from their advisor
- LSA Honors students — from the director of the [Honors Program](#)
- RC students — from the director of the [Residential College](#)

This recommendation should be sent directly to the admissions officer at the School of Public Health. Students will complete all required admissions materials for the [School of Public Health](#) (application, statement of purpose, letters of recommendation, GRE or MCAT scores) and will apply through the normal school-wide mechanism. They should also submit an election form and plan for completing the undergraduate requirements and enrolling in the initial set of required graduate courses in the first term of their senior year.

Admitted 4+1 students will matriculate into the School of Public Health at the beginning of the winter term of their senior year.

**Academic Advising:** Once admitted to the SPH graduate program, students will be assigned a faculty advisor from that department. However, [LSA Academic Advising](#) will retain primary responsibility for academic advising until students have completed their undergraduate degrees.

**Credits:** Undergraduates who have been admitted to the Concurrent Undergraduate/Graduate Studies Program will be given permission by the graduate program to enroll in the required graduate coursework. However, students must be registered a minimum of two terms of the master's program in the graduate career only, with no other U-M registration. No dual enrollment is required. Approved graduate credits taken in the final undergraduate term—typically the fall of their senior year—will be double counted in the graduate program upon matriculation.

*Note:* Students can double-count up to 15 credits from their undergraduate coursework toward their graduate coursework if the credits are 400 level or higher.

**Participating departments and degree programs:**

- [Health Behavior and Health Education](#) (M.P.H.)

- [Epidemiology](#) (M.P.H.)
- [Environmental Health Sciences](#) (M.P.H.)

U-M School of Public Health  
734.763.3860  
[sph.inquiries@umich.edu](mailto:sph.inquiries@umich.edu)

## Second Degree

Individuals with a bachelor's degree who want to earn a second degree must obtain permission from the Office of Undergraduate Admissions. Normally, at least two calendar years must transpire between the awarding of the first baccalaureate degree and the beginning of the second baccalaureate degree program. Applicants must pursue an academic program significantly different from that of the first baccalaureate degree. Except in the case of [joint degrees](#), the College does not award concurrent bachelor's degrees. For graduates of schools and colleges on the Ann Arbor campus, the two baccalaureate degrees should be different (for example, not two Bachelor of Arts or two Bachelor of Science degrees). The second degree program cannot be a [B.G.S. degree](#), and students whose first degree is the B.G.S. degree are ineligible for a second bachelor's degree. Applicants who already have an LSA degree must earn at least 30 credits in residence in LSA beyond the credits required for the first degree, with at least 15 in the new field of the major. Graduates of another Ann Arbor unit must earn at least 30 credits while registered in LSA. The second program must include a minimum of 100 LSA credits. To be considered for admission to a second baccalaureate degree program, all applicants who have a baccalaureate degree from the Ann Arbor campus of the University of Michigan must have a 2.0 minimum grade point average.

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

## Non-Degree Status

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

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

meet the conditions for dual enrollment as defined by LSA and implemented by the Office of Undergraduate Admissions.

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

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

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

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

Non-degree students who would like to discuss their academic plans are encouraged to contact the [Newnan Academic Advising Center](#).

# LSA Requirements

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

## Rules for Degree Requirements

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

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

Use [My LSA Audit Checklist](#) to check your progress and see if you're on track to graduate.

## Credit Requirements

### 120 Total Credit Requirement

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

### 100 LSA Credit Requirement

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

### 90 Graded Credit Requirement

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

## Residence Requirements

There are three residence requirements:

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

For more information please see the [Transfer Information & Residence Policy page](#).

### 60 Credits Outside Major Dept.

Students electing an area, interdepartmental, or special concentration must earn at least 60 credits outside of their major department. More

information on this policy can be found on the [60 Credits in One Department page](#).

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

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

## Grade Point Average

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

## Term and Cumulative Grade Point Averages

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

## Minimum Term and Cumulative Grade Point Averages Required

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

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

## Computing Your Grade Point Average

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



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

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

Here is an example:

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

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

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

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

## How to Compute an Honor Point Deficit

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

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

Here is an example:

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

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

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

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

## Why Honor Points Matter

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

### Calculating Honor Points

Every grade has a value:

Letter Grade	Honor Points
A+	4.0
A	4.0
A-	3.7
B+	3.3
B	3.0
B-	2.7
C+	2.3
C	2.0
C-	1.7

D+	1.3
D	1.0
D-	0.7
E	0.0

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

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

GPA = 1.486  
Honor Point Deficit = 7.7

## Term and Cumulative Grade Point Averages

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

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

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

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

## Calculating the Honor Point Deficit

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

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

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

The cumulative honor point deficit will determine how badly your grade point average has been affected. It will also tell you how many credits of "B" grades you will have to earn (with no other grades falling below a "C") in order to raise your cumulative grade point average to the 2.0 minimum needed to be in good standing and to graduate. You also need at least a 2.0 in your major grade point average to graduate.

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

## Things to Consider

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

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

## First-Year Writing Requirement

The goal of the First-Year Writing Requirement (FYWR) is to prepare students to write in diverse academic contexts. As a broad preparation for the range of writing tasks students will encounter at the University of Michigan and beyond, FYWR courses emphasize evidenced, academic writing in a variety of genres and rhetorical situations. A FYWR course is foundational for students to master the kind of analysis and argumentation found in sophisticated academic writing.

The First-Year Writing Requirement should be completed in the first year with a minimum grade of C– and must be satisfied before electing a class to satisfy the Upper-Level Writing Requirement (ULWR). Advanced Placement (AP) credit does not fulfill the FYWR.

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

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

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

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

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

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

- feel most comfortable with academic writing in a language other than English and/or

- want an opportunity to work closely with an instructor to become better prepared for writing in English.

## Writing Placement

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

## Upper-Level Writing Requirement

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

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

Overall ULWR learning goals for students are as follows:

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

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

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

## Race and Ethnicity (R&E) Requirement

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

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

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

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

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

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

## Quantitative Reasoning Requirement

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

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

Students may fulfill this requirement by:

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

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

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

- students who transfer in **all** of the required prerequisite courses for science, math, or computer science majors, as so designated by the major advisor
- students who receive transfer credit of at least three credits for PHYSICS 125, 126, 140, or 240 or any class that transfers as STATS 250 or Statistics Departmental

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

## Language Requirement

LSA's language requirement seeks to prepare students for a world that has been profoundly transformed by the forces of globalization.

Language shapes both how we understand and how we negotiate our world; learning a second language provides both a deep awareness of linguistic and cultural differences and a means to bridge them.

Informed respect for other cultures, tolerance, cosmopolitanism, self-awareness, and flexibility are the hallmarks of a liberal arts education, and the study of foreign languages fosters precisely these capacities.

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

## Language Requirement Policies

1. **Students must earn a grade of C- or better in the prerequisite language course to proceed to the subsequent course.** Any exception to this rule must be granted by a designated faculty representative in the department.
2. **The final course in an elementary language sequence used to satisfy the Language Requirement must be elected on a graded basis.**
3. The Language Requirement cannot be satisfied by [out-of-residence credit](#) that is elected after the student has begun degree enrollment in LSA unless the appropriate language department has approved that plan in advance.
4. No more than 60 credits in one language (other than English) may be counted in the 120 required for a degree. However, the 60 credit limit on courses elected in one major may be exceeded when the excess credits have been used to meet the Language Requirement.

### Fourth-Term Proficiency and Language Requirement Course List

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

1. Certified proficiency on a University of Michigan reading and/or listening test. Students with previous experience in the language they plan to use to meet the language requirement must take a language placement test. A student may not elect to enroll for credit in a language course below this placement level without departmental permission.
2. **Credit for a University of Michigan fourth-term language course listed below with a grade of C- or better.**
  - African Languages (AAS 226)  
Akan/Twi, Bambara/Bamana, Wolof, Zulu/IsiZulu
  - American Sign Language (LING 251 or RCCORE 204 or RCASL 202)
  - Arabic
    - Classical (AAPTIS 582)
    - Modern Standard (one of: ARABIC 202, 205, 421, 426 [or AAPTIS 202, 205, 216, 218] or AAPTIS 204, 419, 420)
  - Armenian
    - Eastern (ARMENIAN 206 [or AAPTIS 282 or ARMENIAN 282])

- Western (ARMENIAN 202 [or AAPTIS 272 or 273, or ARMENIAN 272 or 273])
- Bosnian, Croatian, and Serbian (BCS 232 or 225)
- Central Asian Languages (NESLANG 481 [or AAPTIS 250 or ASIANLAN 250])  
Uzbek, Kazakh, Uyghur, Pashto, or Tajik
- Chinese (ASIANLAN 202, 203, or 204)
- Czech (CZECH 242)
- Dutch (DUTCH 232)
- Filipino (ASIANLAN 212)
- French (FRENCH 230 or 232, or RCLANG 290)
- German (GERMAN 230 or 232 or 291, or RCLANG 291)
- Greek
  - Classical (GREEK 301 and 302, or 405)
  - Biblical (GREEK 307 and 308, or ACABS 307 and 308)
  - Modern (MODGREEK 202)
- Hebrew
  - Classical (NESLANG 202 [or ACABS 202])
  - Modern (HEBREW 202 or 203 [or HJCS 202 or 210])
- Hindi (ASIANLAN 216 or 217)
- Indonesian (ASIANLAN 222)
- Italian (ITALIAN 232 or 230)
- Japanese (ASIANLAN 226 or 227 or 229, or RCLANG 296)
- Korean (ASIANLAN 236 or 237 or 238)
- Latin (LATIN 232 or 233 or 295, or RCLANG 295)
- Ojibwe (AMCULT 323)
- Persian (PERSIAN 202 [or AAPTIS 242] or AAPTIS 243)
- Polish (POLISH 222)
- Portuguese (PORTUG 232 or 230)
- Quechua (LACS 474)
- Punjabi (ASIANLAN 246)
- Russian (RUSSIAN 202 or 203 or 223 or 225 or 325, or RCLANG 293)
- Sanskrit (ASIANLAN 252)
- Spanish (SPANISH 230 or 232, or RCLANG 294)
- Swahili (AAS 216)
- Swedish (SCAND 234)
- Thai (ASIANLAN 262)
- Tibetan
  - Classical (ASIANLAN 468)
  - Modern (ASIANLAN 266)

- Turkish (TURKISH 202 or 203 [or AAPTIS 252 or 255])
- Ukrainian (UKR 252 or 203)
- Urdu (ASIANLAN 272)
- Uzbek (AAPTIS 253)
- Vietnamese (ASIANLAN 276)
- Yiddish (YIDDISH 202 or JUDAIC 202 or GERMAN 228)

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

3. Credit for a University of Michigan language course that presumes a fourth-term proficiency in a language (except for 305 and/or 306 in FRENCH, GERMAN, ITALIAN, LATIN, MODGREEK and SCAND; 405 and/or 406 in GERMAN and SCAND; SPANISH 278/AMCULT 224; and SPANISH 308.

## Area Distribution Requirement

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

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

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

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

### Distribution Requirement

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

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

1. Students must complete seven credits in each of the following three areas: Natural Science (NS), Social Science (SS), and Humanities (HU), for a total of 21 credits.
2. Students must also complete three additional credits in three of the following five areas: (NS), (SS), (HU), Mathematical and Symbolic Analysis (MSA), and Creative Expression (CE), for a total of nine credits. Credits in courses designated Interdisciplinary (ID) may be used to satisfy up to nine credits of this part of the requirement.

### General Policies for Area Distribution Plans

An area distribution plan **may** include:

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

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

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

### Area Definitions

#### Natural Science

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

#### Social Science

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

#### Humanities

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

#### Mathematical and Symbolic Analysis

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

economics, the environment, geological sciences, philosophy, physics, and sociology.

### **Creative Expression**

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

### **Interdisciplinary**

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

### **General Guidelines for Distribution Courses**

In general, Distribution courses should:

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

These types of courses will not be approved for Distribution:

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

## ***Non-LSA Units Offering Courses with Creative Expression***

### **Penny W. Stamps School of Art & Design**

#### **Art and Design (ARTDES)**

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

230. Concept Form and Context Studio III

231. Concept Form and Context Studio III

### **College of Engineering**

#### **University Arts (UARTS)**

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

### **A. Alfred Taubman College of Architecture and Urban Planning**

#### **Architecture (ARCH)**

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

#### **Performance - Piano (PIANO)**

- 110. Performance
- 111. Performance

### **School of Music, Theatre & Dance**

#### **Dance (DANCE)**

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

#### **Ensemble (ENS):**

All Courses 100-399

#### **Other courses**

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

## ***Majors***

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

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

### **General Guidelines**

1. Students normally declare a major during the second term of their sophomore year.
2. To declare a major, a student should contact the appropriate department and make an appointment with a department advisor.
3. After developing a plan for the major with the student, the department advisor has the major entered on the student's record.
4. Requirements for majors are those applicable at the time the student declares the major.
5. A student may change the plan for the major with the approval of the department advisor.

6. Students may change majors after meeting with a department advisor in a different department.
7. Students with academic interests outside existing majors may propose their own major and, on approval, elect the [Individualized Major Program](#).

## Current Policies

Effective Winter 2016 | [Prior Policies](#)

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

## Multiple Majors

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

## Second Major after Graduation

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

## Honors Majors

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

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

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

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

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

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

be posted on the final transcript and diploma. Honors majors are described under the relevant departmental listings under [Majors and Minors](#).

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

In some rare circumstances, departments may ask the Honors Academic Board to graduate with Honors a student whose cumulative GPA is below the required threshold at the time of graduation. The request should be made by the faculty advisors who know the student's work and history best, but must be endorsed by the director of undergraduate studies and the chair of the department. The letter(s) for this request should explain the student's circumstances, describe the Honors work, and provide a justification for making an exception to the GPA requirement.

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

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

[Graduation with "Honors," "High Honors," or "Highest Honors"](#) is granted upon recommendation of the thesis advisor and readers.

**Honors Advising.** Students interested in submitting an HIMP should schedule an appointment with [Dr. D.L. Wessel Walker](#), Associate Director of the [Honors Program](#), to discuss goals and procedures. A formal prospectus, developed in consultation with appropriate faculty advisor, is then submitted for review and approval by the Honors Academic Board.

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

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

Many departments require their Honors majors to register for special seminars and independent study research courses. Other departments do not have these courses, so their students can choose to enroll in

HONORS 490. Since thesis research and writing most often extends beyond one term, the course may be assigned a "Y" grade for the term or terms prior to completion. This simply means "extended course" or "work in progress." At the completion of the thesis, one letter grade will be assigned for all the terms involved. Unlike an "I" (for an incomplete), the "Y" does not remain on the record.

After an evaluation of the thesis and the overall academic record, Honors department advisors recommend that students graduate with Honors. Deadlines and procedures for evaluating senior theses vary by department. Some departments have a committee that evaluates all theses, whereas others are based primarily on the judgment of the student's advisor and the Departmental Honors advisor.

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

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

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

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

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



overall grade point average of 3.4 is required. A notation is made on the diploma and the transcript.

## Minors

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

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

### Current Policies

Effective Winter 2016 | [Previous Policies](#)

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

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

earned towards a minor in the completion of an additional major after graduation. Upon completion of this additional major, the minor will be removed from the student's transcript and be replaced by the major.

### Minors — Other Units

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

- the A. Alfred Taubman College of **Architecture and Urban Planning** (effective fall 2003)
- the Penny W. Stamps School of **Art & Design** (effective winter 2002)
- the Stephen M. Ross School of **Business** (effective fall 2004)
- the **Dental Hygiene** Program (effective winter 2003)
- the School of **Education** (effective fall 2002)
- the College of **Engineering** (effective winter 2001)
- the School of **Information** (effective fall 2014)
- the School of **Kinesiology** (effective fall 2001)
- the School of **Music, Theatre & Dance** (effective winter 2002)
- the School of **Natural Resources and Environment** (effective winter 2002)
- the School of **Nursing** (effective fall 2002)
- the Gerald R. Ford School of **Public Policy** (effective fall 2007)

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

The **Penny W. Stamps School of Art & Design** offers a minor in [Art and Design](#).

The **Stephen M. Ross School of Business** offers a [Minor in Business](#).

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

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

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

1. Health
2. Health and fitness leadership
3. Movement science  
*The movement science minor is open only to dance majors in the School of Music, Theatre & Dance.*

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

1. [Music](#)
2. [Global theatre and ethnic studies](#)
3. [Performing arts management](#)
4. [Design and production](#)

The **School of Social Work** offers a minor in [Community Action and Social Change](#).

## Supplemental Studies

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

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

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

### Policies for Supplemental Studies

Effective Winter 2014 | [Previous Requirements](#)

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

### List of Supplemental Studies Programs

- [Program in Entrepreneurship \(Innovate Blue\)](#)
- [Sustainability \(Graham Sustainability Institute\)](#)

# LSA Academic Policies

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

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

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

## Credit Limits

### Non-LSA Coursework

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

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

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

1. Candidates for an A.B., B.S., or B.G.S. degree must complete a minimum 100 credits of LSA courses, allowing 20 credits of non-LSA coursework in the minimum 120 required for the degree. Non-LSA credits in excess of 20 will be included in the calculation of a student's GPA, but will not be counted toward the 120 credits needed for a bachelor's degree in LSA.
2. Courses cross-listed between LSA and another school or college of the University of Michigan (Ann Arbor) count toward the required number of LSA credits.
3. School of Kinesiology courses cross-listed with an LSA SUBJECT count for degree credit as LSA courses.  
All other [School of Kinesiology courses](#) are recorded as "not for credit" for LSA students except for the courses for which LSA students may receive non-LSA degree credits.
4. University of Michigan School of Music, Theatre & Dance ensemble courses yield non-LSA degree credit but no honor points (except for those cross-listed with LSA: ENS 405, 406, 407).
5. Transfer credit for speech and journalism courses are counted as non-LSA.
6. The College does not grant degree credit for any courses offered through the **Military Officer Education Programs** except for those courses cross-listed in other academic units.

## School of Kinesiology Courses

School of Kinesiology courses cross-listed with an LSA SUBJECT count for degree credit as LSA courses (**LSA Credit**). All other School of Kinesiology courses are recorded as "not for credit" for LSA students (**NFC**) except for the courses for which LSA students may receive non-LSA degree credits (**nonLSA**)

### LSA Credit

- KINESLGY

- KINESLGY 505. Disability Studies.

- SM

- SM 421. Gender and Sport.

### Non-LSA

- AT

- AT 220. Anatomy & Physiology.

- HF

- HF 220. Anatomy & Physiology.
- HF 221. Appl Hum Anat Lab.
- HF 240. Intro to Fit&Health.
- HF 241. Ex Nutr Wt Cn.
- HF 331. Biomech Sprt Ftns.
- HF 333. Legal Iss Sprt Ftns.
- HF 425. PA & Ped Disability.
- HF 434. Mgr Ethcs Sprt Ftns.
- HF 437. Psych Sport&Exer.
- HF 446. Soc Factors Phys Act.

- KINESLGY

- KINESLGY 302. Kines Study Abroad.
- KINESLGY 421. Disord Vol Move.
- KINESLGY 422. Motor Learning.
- KINESLGY 423. Sensorimot Dev.
- KINESLGY 424. Aging&Motor Perfmnc.
- KINESLGY 425. PA & Ped Disability.
- KINESLGY 427. Expertise.
- KINESLGY 435. Biomech Hum Locomot.
- KINESLGY 437. MotnCap Anim Biomech.
- KINESLGY 438. Musculoskeletal Imag.
- KINESLGY 441. Environ Exer Phys.
- KINESLGY 442. Exer Endocrinology.
- KINESLGY 443. Exrcse&Succ Aging.
- KINESLGY 444. 6-12 Methods in PE.
- KINESLGY 446. Soc Factors Phys Act.
- KINESLGY 448. CV Ex Phys.
- KINESLGY 450. Sem Adapted Phys Act.
- KINESLGY 471. Phys Activity Epid.
- KINESLGY 472. Adul Exer Prog.
- KINESLGY 474. Worksite Wellness.

- KINESLGY 533. Neuromechanics.

- **MOVESCI**

- MOVESCI 110. Bio&Beh Bases Hu Mvt.
- MOVESCI 219. Scientific Writing.
- MOVESCI 230. Hum Musculo Anat.
- MOVESCI 231. Hum Musculo Anat Lab.
- MOVESCI 240. Intro to Fit&Health.
- MOVESCI 241. Ex Nutr Wt Cn.
- MOVESCI 250. Statistics.
- MOVESCI 280. Kin UG Research Opp.
- MOVESCI 320. Motor Control.
- MOVESCI 330. Biomech of Hum Mvmt.
- MOVESCI 340. Exercise Physiol.
- MOVESCI 361. Intro Surg Neuromon.
- MOVESCI 421. Disord Vol Move.
- MOVESCI 422. Motor Learning.
- MOVESCI 423. Sensorimot Dev.
- MOVESCI 424. Aging&Motor Perfmnc.
- MOVESCI 425. PA & Ped Disability.
- MOVESCI 426. Cog Neuro of Action.
- MOVESCI 427. Expertise.
- MOVESCI 435. Biomech Hum Locomot.
- MOVESCI 437. MotnCap Anim Biomech.
- MOVESCI 438. Musculoskeletal Imag.
- MOVESCI 441. Environ Exer Phys.
- MOVESCI 442. Exer Endocrinology.
- MOVESCI 443. Exrcse&Succ Aging.
- MOVESCI 446. Soc Factors Phys Act.
- MOVESCI 448. CV Ex Phys.
- MOVESCI 450. Sem Adapted Phys Act.
- MOVESCI 471. Phys Activity Epid.
- MOVESCI 474. Worksite Wellness.

- **PHYSED**

- PHYSED 255. Hlth Ed Elem Teacher.
- PHYSED 336. K-12 Rhythm&Dance.
- PHYSED 444. 6-12 Methods in PE.

- **SM**

- SM 101. Pub&Small Grp Comm. (No credit for LSA students with junior or senior standing if taken in Fall 2016 or prior.)
- SM 111. His-Soc Hum Move.
- SM 203. Intro Sport Mgmt.
- SM 217. Business Comm.
- SM 249. Research Methods.
- SM 331. Econ of Sport.
- SM 332. Org Behave-Sport Org.
- SM 333. Legal Iss Sprt Ftns.
- SM 341. Sport Finance.
- SM 342. Strategy Sport Org.
- SM 346. Prin of Marketing.
- SM 431. Sports & the Media.
- SM 432. Hum Res Mang in Spt.
- SM 433. Spt&Public Policy.
- SM 434. Mgr Ethcs Sprt Ftns.
- SM 435. Sport&the Consumer.
- SM 436. Race Rel,Cul Images.
- SM 437. Psych Sport&Exer.
- SM 438. Sports Econ Policy.
- SM 439. Spnsrshp Lnkd Mrktng.
- SM 440. Sports & Eco Dev.
- SM 444. Sales Mng in Spt Ind.
- SM 446. Brand Strat&Ad Camp.

## NFC

- **AT**

- AT 115. Prev&Care Ath Inj.
- AT 117. Prev&Care-AT Inj Lab.
- AT 200. Clin Exp Ath Train A.
- AT 205. Clin Exp Ath Train B.
- AT 210. Clin Eval-UE AT Inj.
- AT 212. Clin Eval-UE AT Inj.
- AT 215. Clin Eval-LE Inj II.
- AT 217. Clin Eval LE Inj II.
- AT 218. Emergency Response.
- AT 300. Clin Exp Ath Train C.
- AT 305. Clin Exp Ath Train D.
- AT 326. Fund of Strngth&Cond.
- AT 350. Therap Modalities.
- AT 352. Therapeutic Mod Lab.

- AT 360. Rehab Ath Injuries.
- AT 362. Rehab Athlet Inj Lab.
- AT 363. PrevCare Ath Inj Lab.
- AT 375. Path Allied Hlt Prof.
- AT 400. Clin Exp Ath Train E.
- AT 402. Teach Exp.
- AT 403. Internship in AT.
- AT 405. Clin Exp Ath Train F.
- AT 410. AT Admin.
- AT 420. Pharm Allied HI Prof.
- AT 488. Ind Study AT.

- **HF**

- HF 218. Emergency Response.
- HF 242. Essentls Exer Phys.
- HF 251. Tech Health Fitness.
- HF 270. Honors Reading.
- HF 280. Research Opport.
- HF 290. Field Exp HF.
- HF 313. Special Topics.
- HF 315. Ex Rx & Test.
- HF 332. Prin Mtr Behav.
- HF 370. Honors Reading.
- HF 380. Honors Research.
- HF 402. Teach Exp HF.
- HF 403. Internship in HF.
- HF 451. PA Lifespan.
- HF 470. Independent Study.

- **KINESLGY**

- KINESLGY 402. Teach Exper.
- KINESLGY 413. SpecialTopics MVS AT.
- KINESLGY 414. Dir Teach Sem.
- KINESLGY 415. Dir Teach P E.
- KINESLGY 429. Lab Mtr Cnt Dev.
- KINESLGY 433. HMA:Func Ability.
- KINESLGY 439. Lab Biomechanic.
- KINESLGY 445. Hum Mvt&Aging.
- KINESLGY 449. Lab Exer Phys.
- KINESLGY 451. PA Lifespan.
- KINESLGY 473. Schl Hlth Prog.

- KINESLGY 475. IV/AIDS/STIs/Sex Ed.
- KINESLGY 500. Topical Seminar.
- KINESLGY 503. Legal Asp of Sport.
- KINESLGY 506. Mngng Prof Spt Fran.
- KINESLGY 509. Fin Mgmt Spt Indus.
- KINESLGY 510. Exp Crse Biomech.
- KINESLGY 511. Exp Crse Exer Phys.
- KINESLGY 512. Exp Crse Motor Ctrl.
- KINESLGY 513. Experimental Course.
- KINESLGY 514. Strat Mngmt in Sport.
- KINESLGY 519. Spt Mgmt in Depth.
- KINESLGY 520. Sem Motor Control.
- KINESLGY 522. Clin Neurophys Image.
- KINESLGY 523. Intgrtv Proc: Develop.
- KINESLGY 530. Sem Biomechanics.
- KINESLGY 531. Analysis in MATLAB.
- KINESLGY 532. Org Behavior and HR.
- KINESLGY 540. Adv Exerc Phys.
- KINESLGY 542. Exercise&Nutrition.
- KINESLGY 545. Metab Respon to Exer.
- KINESLGY 550. Mkt Mngmtin Sport.
- KINESLGY 551. Thry Sprt&Cons Beh.
- KINESLGY 560. Sem in PE Pedagogy.
- KINESLGY 572. Fit Eval&Exer Presc.
- KINESLGY 600. Grad Sem MVS.
- KINESLGY 606. Topics Kinesiology.
- KINESLGY 615. Phil Sci Res Kines.
- KINESLGY 616. Prof Skills Res Sci.
- KINESLGY 619. Thesis Research.
- KINESLGY 620. Motor Behavior.
- KINESLGY 640. Exp in Hum Exer Phys.
- KINESLGY 672. Exper in Kines.
- KINESLGY 676. Phys Activity&Hlth.
- KINESLGY 680. Practicum Kines.
- KINESLGY 682. Ind Read in Kin.
- KINESLGY 684. Ind Res in Kin.
- KINESLGY 685. Res Rotation in Kin.
- KINESLGY 686. Intern in Kines.
- KINESLGY 990. Diss-Precand.
- KINESLGY 995. Diss-Cand.

- **MOVESCI**

- MOVESCI 100. Seminar Movement Sci.
- MOVESCI 290. Field Exp MOVESCI.
- MOVESCI 305. Topical Sem.
- MOVESCI 313. Special Topics.
- MOVESCI 326. Personal Training.
- MOVESCI 362. Surg Neuromon Lab.
- MOVESCI 363. IONM.
- MOVESCI 380. Prob in Move Sci.
- MOVESCI 381. Comm Serv Learn.
- MOVESCI 382. Honors Reading.
- MOVESCI 384. Honors Research.
- MOVESCI 390. Field Exp MVS.
- MOVESCI 402. Teach Exp Mvs.
- MOVESCI 403. Internship.
- MOVESCI 413. SpecialTopics MVS AT.
- MOVESCI 429. Lab Mtr Cnt Dev.
- MOVESCI 433. HMA:Func Ability.
- MOVESCI 439. Lab Biomechanic.
- MOVESCI 444. Exercise&Nutrition.
- MOVESCI 445. Hum Mvt&Aging.
- MOVESCI 447. Genetics Move Health.
- MOVESCI 449. Lab Exer Phys.
- MOVESCI 451. PA Lifespan.
- MOVESCI 464. Clin Rot IONM I.
- MOVESCI 465. Neuro Adv Top IONM.
- MOVESCI 466. Clin Rot IONM II.
- MOVESCI 467. Clin Rot IONM III.
- MOVESCI 475. Pharm Allied HI Prof.
- MOVESCI 488. Independent Study.
- MOVESCI 489. Senior Thesis.
- MOVESCI 490. Sr Honors Thesis-A.
- MOVESCI 491. Sr Honor Thesis-B.

- **PHYSED**

- PHYSED 140. Beginning Swim. NFC
- PHYSED 141. Begin Swim II. NFC
- PHYSED 142. Intermediate Swim.
- PHYSED 143. Lifeguard Training.
- PHYSED 145. Tae Kwondo I.
- PHYSED 202. Ath Coach.

- PHYSED 216. Basic First Aid.
- PHYSED 252. Tests&Meas P E.
- PHYSED 254. Gross Mtr Skls Child.
- PHYSED 270. Honors Reading.
- PHYSED 290. Field Exp PHYSED.
- PHYSED 301. Coord Schl Hlth Prog.
- PHYSED 305. Prac Elem Teach Meth.
- PHYSED 306. Prac Hlth Teach Meth.
- PHYSED 313. Special Topics.
- PHYSED 326. Fund of Strngth&Cond.
- PHYSED 349. Water Safety Inst.
- PHYSED 350. Tact Appr-Invasn Gms.
- PHYSED 353. Net/Wall Games&Fitn.
- PHYSED 354. Meth of Teach K-5 PE.
- PHYSED 370. Honors Reading.
- PHYSED 373. Issues Hlth Wellness.
- PHYSED 380. Honors Research.
- PHYSED 390. Field Experience.
- PHYSED 402. Teach Exp PE.
- PHYSED 414. Dir Teach Sem.
- PHYSED 415. Dir Teach P E.
- PHYSED 432. Biomech of Sport.
- PHYSED 470. Independent Study.
- PHYSED 472. Adul Exer Prog.
- PHYSED 473. Schl Hlth Prog.
- PHYSED 475. IV/AIDS/STIs/Sex Ed.
- PHYSED 490. Sr Honors Thesis.

- **SM**

- SM 101. Pub&Small Grp Comm. (No credit for LSA students with junior or senior standing if taken in Fall 2016 or prior.)
- SM 270. Honors Reading.
- SM 280. Research Opport.
- SM 290. Field Exp SM.
- SM 313. Special Topics.
- SM 349. Res Mth Spt Indus.
- SM 370. Honors Reading.
- SM 380. Honors Research.
- SM 390. Field Experience.
- SM 402. Teach Expernce SM.
- SM 403. Internship in SM.

- SM 470. Independent Study.
- SM 490. Sr Honors Thesis.

- **UMOVE**

- UMOVE 110. W S I or L G I.
- UMOVE 112. Lifeguarding Instr.
- UMOVE 113. First Aid&C P R Ins.
- UMOVE 168. Tae Kwon Do II.

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

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

1. A student cannot choose to elect a course by the CR/NC and S/U grading patterns; the *optional* non-graded pattern is P/F.
2. Non-graded courses earn credit toward a degree but not honor points. Therefore, "Pass" (or "Credit") grades do not enter into the computation of the term or cumulative grade point averages.
3. *A change in grading pattern for a course is not permitted after the first three weeks of a full term (first two weeks of a half-term).* Grading pattern choices must be modified through the registration system. Courses elected after the third week of a term may not be elected on a non-graded basis unless the course is offered as a "mandatory non-graded" course. The only exceptions to this policy are *short courses* (e.g., EARTH 101-115) which have started after the beginning of the term. In these cases, the grading pattern may not be changed after the second week of class. **The Academic Standards Board does not grant exceptions to this policy.**
4. *The College holds students responsible for ensuring the accuracy and completeness of their class schedule.*
5. Instructor approval is not required for a choice in the elected grading pattern nor should the instructor be informed of such a choice. Instructors report letter grades (A through E) for all students in their courses, except in mandatory CR/NC courses. In the case of a student who has chosen to elect a course "Pass/Fail," the Office of the Registrar converts the letter grades according to the following policies:
  - Grades of A through C– are posted on a transcript as "P" (Pass); credit toward a degree is earned.
  - Grades of D through E are posted on a transcript as "F" (Fail); no degree credit is earned.
6. In the case of an incomplete course elected "Pass/Fail," credit is posted only when the work has actually been completed and a grade of at least C– has been reported. "Pass/Fail" courses which are not finished lapse to "Fail," although the term and cumulative grade point averages remain unaffected.
7. If the instructor of a mandatory Credit/No Credit course believes that the amount and quality of a student's work is such that it

deserves credit, CR (Credit) is posted on the transcript. If the instructor believes that a student's work does not justify the awarding of credit, NC (No Credit) is posted on the transcript. Courses offered *mandatory Credit/No Credit* are designated in the course listings.

8. Students who have transferred "non-graded" credit to the College must count that credit as part of the maximum 30 hours of "non-graded" credit which may be counted toward an LSA degree. Advanced Placement credit as well as transfer courses for which students earned grades at another institution do not count against the 30-credit limit.
9. Classes at Camp Davis may not be elected on a Pass/Fail basis (effective Spring Term 2012).
10. Non-graded courses *may* be included in a distribution plan.
11. Pass/Fail courses *may not* be included in a plan for the major or in a minor.
12. Experiential and Directed Reading/Independent Study courses that are graded on a Credit/No Credit or Satisfactory/Unsatisfactory basis *may be* included in a major program.
13. The final course in a sequence used to fulfill the Language Requirement *may not* be elected on a Pass/Fail basis. (Effective for all students admitted to the College in Fall Term, 1995 and thereafter.)
14. In computing the grade point average for honorary societies, the *reported letter grades* for "non-graded" elections are computed into the cumulative grade point average.
15. No course elected "Pass/Fail" will receive the Honors notation on the transcript or be counted as an "Honors" course for the Sophomore Honors Award.
16. A student may pay a special fee set by the Registrar's Office and request a specially prepared appendix to the transcript on which the original grades submitted for all courses elected "Pass/Fail" are listed.

## ***Experiential and Directed Reading / Independent Study***

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

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

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

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

Independent courses may be:

1. Directed Reading/Independent Study courses (denoted INDS in the [Undergraduate Course Catalog](#) and [LSA Course Guide](#)) which



are designated by title and not normally offered by classroom instruction;

2. courses normally offered through classroom instruction but occasionally taught on an independent study basis;
3. courses not specially designated as "Independent" and normally offered as classroom instruction but elected by special arrangement with the instructor.

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

1. A combined total of 30 credits of Experiential and Directed Reading / Independent Study courses may be counted in the 120 credits required for a degree.
2. No more than 8 credits may be earned in a single term.
3. Experiential and Independent Study courses are excluded from area distribution plans.

#### Guidelines for Independent Studies

## 60 Credits in One Department

### For the degree

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

### For the major

No more than 60 credits in a major (including courses in one department and the required cognates) may be counted toward the 120 for the degree. When an academic department has two or more SUBJECTs (*e.g.*, Anthropology, Romance Languages and Literatures), a student may count a total of 60 credits from that department, not from each SUBJECT.

No more than 60 credits in one language (other than English) may be counted in the 120 required for a degree. However, the 60 credit limit on courses elected in one major may be exceeded when the excess credits have been used to meet the language requirement.

## Transfer Credit

- Students who transfer from a two-year college are permitted 60 transfer credits (62 if an Associate's degree requiring 62 credits has been completed).
- [Prior to Spring 2014, LSA had the following policy: "Students who have completed 60 credits toward an LSA degree cannot earn degree credit for courses elected at a two-year college. Please note, in order for LSA to accept community college credits toward the 120-credit requirement after the student has already completed 60 credits, the student needs to be enrolled in the community college course as of Spring 2014 or later. LSA will not allow students who took the course prior to Spring 2014 and who had >60 credits at the time they took the community college course, to count toward their 120 credits regardless of when they send their transfer transcript to U-M. Because the Curriculum Committee explicitly decided to make the new policy effective this Spring 2014 and NOT make it retroactive, the Academic Standards Board will not entertain petitions for students who took

community college credit prior to Spring 2014 and want it to count toward their 120-credit requirement. As always, community college credit taken prior to Spring 2014 can count toward other LSA general requirements regardless of how many credits the student has completed, including BS and LSA credit, as well as distribution.]

- Up to 60 credits may be transferred from the Flint and Dearborn campuses of the University of Michigan. Courses completed at these campuses are defined as *out-of-residence* credit (effective September 1, 1976), even though they carry Michigan Honor Points.
- Even if a course is transferable, credit is not allowed if the final grade earned is "C-" or lower. This includes all transferable credit earned outside the University of Michigan. (All credits and grades from the University of Michigan-Dearborn and -Flint campuses transfer.)
- Credit cannot be transferred from another school if that credit is also being counted toward another baccalaureate or graduate or professional degree. "Special Joint Degree Programs" are exceptions to this policy.

### Credit from Dual Enrollment Programs while in High School

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

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

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

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

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

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

Students electing courses in LSA which are prior to those in a course sequence for credits already awarded via transfer credit will have the

transferred credits deducted, and the credits and honor points earned by the LSA elections will stand. This could mean losing credit for several courses while retaining credit for only one (for example, transfer credit for one or more terms of foreign language can be deducted because of subsequently completing the first term of that language at the University of Michigan).

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

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

## ***Repetition and Out of Sequence***

### **Repetition of Courses**

**Effective Spring 2015**

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

### **Previous Repetition of Courses Policy**

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

### **Out of Sequence Courses**

Students should assume that once they take an in-residence course in a sequence (chemistry, mathematics, language, and others), they cannot receive credit for taking a prior course in the sequence. For example, a student who took SPANISH 231 after taking and passing SPANISH 232 on the Ann Arbor campus would not receive credit for the SPANISH 231 course.

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

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

## ***Special Kinds of Credit***

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

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

[Retroactive Language Credit](#)

[College Level Examination Program \(CLEP\) Examinations](#)

[Advanced Placement \(AP\) Credit](#)

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

[International Advanced Standing Credit Guidelines](#)

[Credit by Examination](#)

## ***College Level Examination Program (CLEP)***

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

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

## ***A-Level and Other International Advanced Standing Credit Guidelines***

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

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

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

## ***International Baccalaureate (IB) Credit***

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

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

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

### International Baccalaureate (IB) Credit Guidelines

## Advanced Placement (AP) Credits

### AP Credit: Summary

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

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

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

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

### U-M Advanced Placement (AP) Guidelines

## Credit by Examination (CBE)

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

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

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

Credit earned by examination is [out-of-residence credit](#). It is posted on a student's transcript as credit earned toward the degree but without honor points and is identified by the notation "Credit by Examination."

Failure to pass a departmental examination is not noted on a student's transcript or in a student's academic advising file.

## International Advanced Standing Credit Guidelines

### International Advanced Standing Credit Guidelines

## Retroactive Language Credits

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

### Details and Restrictions

1. This policy is effective for all students whose first term of enrollment in LSA is Fall 1997 or after. Students who entered LSA before Fall 1997 are not eligible for retro-active language credit.
2. Students must successfully complete a designated course on the U-M—Ann Arbor campus with a B or better.
3. The course taken to earn retro-credits must be the first college course in the foreign language and must be designated as appropriate for this purpose by that department.
4. Although there is no time limit on retro-credit, students are advised to complete coursework and apply for retro-credits within their first year of enrollment in LSA.
5. Taking a designated course Pass/Fail disqualifies students from receiving the retroactive credit.
6. Transfer students are not allowed to earn double credit for the same work. That is, transfer students may either receive transfer credits for the foreign language or retroactive credits given through successful completion of the designated course, but not both.
7. Students may receive a maximum of 8 credits through AP/IB examination and/or retroactive credits. For guidelines on AP/IB credit, consult an LSA academic advisor or the relevant language department.
8. Retroactive language credits are available only to students who began learning French, German, Hebrew, Latin, Modern Greek, or Yiddish as a second/non-native foreign language, primarily in a school setting. Students with native language fluency (*i.e.*, students who learned the target foreign language in ways other than formal schooling/instruction) are **not** eligible to earn retro-credits in that foreign language. Unusual cases will be addressed by the individual departmental department advisors.

### How to Apply for Retroactive Credits in French, German, Hebrew, Latin, Modern Greek, and Yiddish

1. If your placement is 232 (202 for Hebrew and Modern Greek), enroll in 232 (202 for Hebrew and Modern Greek). If you have placed out of the language requirement, enroll in a designated upper-level language course in that language.
2. Fill out the [Application for Retroactive Credits](#). Return this form to your instructor as early as possible during the term.

3. Complete the course with a grade of B or better.
4. The department will forward it to the [LSA Academic Advising Center](#) or the [Honors Program Office](#) for authorization.

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

## Transfer Information & Residence Policy

At least 60 of the 120 credits required for a degree must be earned in residence. Residence credit is granted for courses elected on the Ann Arbor campus or at off-campus sites directed by Ann Arbor faculty present on the site.

- At least 30 of the last 60 credits for the degree must be earned in residence.
- No more than 60 credits may be earned through [Advanced Placement](#), [credit by examination](#), correspondence courses, [transfer credit from other institutions](#), and off-campus independent study.
- [Cross-campus transfer](#) students may receive credit for a maximum of 90 credits from a previous college or school on the Ann Arbor campus. No more than 60 of these 90 credits may have been completed at other institutions. LSA residency requires that a student earn 30 credits in the College of Literature, Science, and the Arts.
- Students are eligible to make a cross campus transfer to LSA after they have completed two full terms in their original school or college. The application may be submitted during the second term of enrollment. The GPA of the last term before transfer and the cumulative GPA must both be above 2.0 in order for a student to be eligible to transfer into LSA. Students who wish to make a cross-campus transfer after the freshman year should discuss their plans with an academic advisor; the advisor will assist in selecting an appropriate academic program for the second term of the freshman year. Cross-campus transfer students may receive credit for a maximum of 90 credits from the previous college or school. LSA residency requires that a student earn 30 credits in LSA.

[Transfer Within the U-M System](#)

[Transfer Credit Equivalency Search](#)

[Transfer Credit Equivalency Request Form](#)

[Michigan Uniform Guest Application](#)

## Registration and Enrollment

### Accuracy of Schedule

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

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

- Students need to be sure that a course has been modified properly. The accuracy of the Pass/Fail (P/F) designation is particularly important since, after open drop/add, a course cannot be changed from graded to P/F or vice versa.
- Students should ensure that they have no unexpected time conflicts.

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

## Class Attendance

### Policy on Class Attendance

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

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

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

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

### Absence from Class Due to Illness or Unanticipated Circumstances

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

## Requiring Documentation for missing assignments

If the student's absence due to illness causes the student to miss an assignment, an exam or any other required work for the class affecting the course grade, the professor has the right to require additional documentation verifying the cause of absence. If the instructor excuses the absence, the options available to make up that missed work may be limited and will be determined by the instructor within the limits of the course.

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

## Students Representing the University in an Official Capacity Off-Campus

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

Within reason, an instructor should provide appropriate arrangements to the student for missed work, providing such accommodations does not place unreasonable burden on the instructor or fundamentally alter the integrity of the course. When the absence coincides with an exam or other assignment due date, the options to make up that missed work may be limited and will be determined by the instructor within the boundaries of the course.

For further information, see: [Provost Martha E. Pollack's letter](#) to the university community or consult with your department's chair.

## Religious-Academic Conflicts

It is the policy of the University of Michigan to make every reasonable effort to allow members of the University community to observe their [religious holidays](#) without academic penalty. Absence from classes or examinations for religious reasons does not relieve students from responsibility for any part of the course work required during the period of absence. Students who expect to miss classes as a consequence of their religious observance shall be provided with a reasonable alternative opportunity to make-up missed academic work. It is the obligation of students to provide faculty with reasonable notice of the dates on which they will be absent. When the absence coincides with an exam or other assignment due date, the options to make up that missed work may be limited and will be determined by the instructor within the boundaries of the respective class.

[Report an Illness Website](#)

## Drop/Add

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

Courses dropped in the first three weeks of a term (first two weeks of a half-term) do not appear on the academic record. Thereafter, all courses officially dropped appear on the transcript with a "W" notation indicating withdrawal. *For students in their first fall or winter term at the University of Michigan, the W(s) are expunged from the official transcript after the term is completed.* The "W" means that the student dropped a course after the third week of a Fall or Winter Term (second

week of a half-term) and that the College accepted the reason(s) for the drop and gave its approval.

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

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

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

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

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

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

Students requesting a late drop must:

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

Students requesting a late add must:

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

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

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

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

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

Only the most serious circumstances warrant dropping a course after the ninth week of the term. Fear of failing the course or no longer needing the course in a degree program are not considered valid reasons for granting approval to drop a course in this period.

In order for the Academic Standards Board to grant a drop at this time, some non-academic, extraordinary event (like serious illness or a severe personal disruption) would have occurred after the ninth-week (after the fourth week of a half-term) drop deadline and would make completion of a course or courses very difficult if not impossible; the Board assumes that the student's academic performance up to the point of the disruptive event has been satisfactory.

Students wishing to drop a class must fill out a [Petition for an Exception to the Late Drop Deadline Form](#), with their instructor. This form is available online or at the [Newnan LSA Academic Advising Center](#), 1255 Angell Hall.

The course instructor or GSI must complete the pertinent sections of the form. In addition, the student must meet with an academic advisor to discuss the circumstances and possible consequences surrounding the student's request. The instructor's and advisor's signatures on the form indicate that the student has discussed the request for a drop with them, but does not indicate approval. That decision is made by the Academic Standards Board.

Students who want to add a course after the ninth week of the term (after the fourth week of a half-term) must obtain and complete a [Petition for an Exception to the Late Add Deadline Form](#), which is available online or at the [Newnan LSA Academic Advising Center](#), 1255 Angell Hall. The Academic Standards Board reviews these add and drop requests and will respond to the student via e-mail.

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

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

- Something non-academic and unexpected occurred after 9<sup>th</sup> week drop deadline of the term that impeded completion of course.
- Student must provide documentation of the event to verify the date of its occurrence and its severity.
- Student had been passing the class up to the occurrence of the event which had to occur after the late drop deadline.
- Instructor must describe the student's performance in the course including the grades and the dates of exams and assignments.
- Instructor must verify that the student did not take the final/finish the final project.

- The instructor must verify that the student did not ask for an incomplete.
- Student must explain why the event affected that course and not the others.

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

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

## **Mini-Courses**

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

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

## **Withdrawal from the College**

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

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

The Office of the Registrar  
1210 LSA Building  
Ann Arbor, MI 48104-1520  
fax 734.763.9053  
email: [ro.registration.questions@umich.edu](mailto:ro.registration.questions@umich.edu)

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

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

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

Students who withdraw between the fourth and sixth week of a full term or in the third week of a half-term are assessed 50% tuition and the registration appears on the transcript with a "withdrew" notation. These dates are posted for each term on the following website: [ro.umich.edu](http://ro.umich.edu). **Full tuition is assessed after these dates.**

After the sixth week of classes in a full term (third week in a half-term), students wishing to withdraw from the College must make an appointment with a member of the Academic Standards Board. After the late drop deadline (ninth week in a full term or four and a half in a half term), students who withdraw from the term will have a hold placed on their records. These students will be out of registration at least one full term (14 weeks) and must obtain permission from the Academic Standards Board to continue in the College.

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

## Withdrawal by Not Registering

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

## Disenroll

### Before Classes Begin:

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

1. Visit a Student Service Site (1513 LSA Bldg. or 1212 Pierpont Commons) make sure you have identification
2. E-mail the request to [ro.registration.questions@umich.edu](mailto:ro.registration.questions@umich.edu) (please include full name, id number and term)
3. FAX your request to (734) 763-9053 (please include full name, ID number, term and signature)
4. Mail your request to the Registrar's Office, 1513 LSA Bldg., 500 S. State Street, Ann Arbor, MI 48109-1392 (please include full name, ID number, term and signature)

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

## Term Withdrawals

### Before Classes Begin:

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

1. Visit a Student Service Site (1513 LSA Bldg. or 1212 Pierpont Commons) make sure you have identification
2. E-mail the request to [ro.registration.questions@umich.edu](mailto:ro.registration.questions@umich.edu) (please include full name, id number and term)
3. FAX your request to (734) 763-9053 (please include full name, ID number, term and signature)
4. Mail your request to the Registrar's Office, 1513 LSA Bldg., 500 S. State Street, Ann Arbor, MI 48109-1392 (please include full name, ID number, term and signature)

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

### Weeks One Through Six:

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

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

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

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

### After Week Six:

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

### Drop (W) / Official Withdrawal / Unofficial Withdrawal (ED)

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

### Request for Term Withdrawal (PDF)

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

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

Note that there is a ONE-YEAR time limit for these requests. It's to your advantage to begin the petition process as soon as possible. Be sure to review the Pre-Submission checklist to learn about the possible

implications of a retroactive withdrawal. See the [petition cover sheet](#) for additional details and instructions.

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

If you have physical or mental health issues that have the potential to interrupt your studies, you may want to consider tuition insurance. Visit the [Tuition Insurance page](#) or click on the button below for more information.

[Tuition Refund Insurance Plan](#)

## Pass/Fail

You are allowed to take up to 30 credits Pass/Fail or Credit/No Credit. (Pass/Fail is an option. Credit/No Credit is a mandatory grading pattern established at the course level.)

Keep the following guidelines in mind:

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

Other factors to consider:

- Instructors do not know you are taking courses Pass/Fail unless you tell them.
- Pass/Fail grades do not calculate into your GPA.
- You should NOT take pre-professional requirements (pre-med or pre-business courses) as Pass/Fail.
- You should always take your coursework seriously. Do not slack off on work in a Pass/Fail class.
- If in doubt about taking a class Pass/Fail, talk to your Advisor.

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

## Detailed Information about Non-Graded Courses (P/F, CR/NC, S/U)

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

1. A student cannot choose to elect a course by the CR/NC and S/U grading patterns; the *optional* non-graded pattern is P/F.
2. Non-graded courses earn credit toward a degree but not honor points. Therefore, "Pass" (or "Credit") grades do not enter into the computation of the term or cumulative grade point averages.

3. *A change in grading pattern for a course is not permitted after the first three weeks of a full term (first two weeks of a half-term).* Grading pattern choices must be modified through the registration system. Courses elected after the third week of a term may not be elected on a non-graded basis unless the course is offered as a "mandatory non-graded" course. The only exceptions to this policy are *short courses* (e.g., EARTH 101-115) which have started after the beginning of the term. In these cases, the grading pattern may not be changed after the second week of class. **The Academic Standards Board does not grant exceptions to this policy.**
4. *The College holds students responsible for ensuring the accuracy and completeness of their class schedule.*
5. Instructor approval is not required for a choice in the elected grading pattern nor should the instructor be informed of such a choice. Instructors report letter grades (A through E) for all students in their courses, except in mandatory CR/NC courses. In the case of a student who has chosen to elect a course "Pass/Fail," the Office of the Registrar converts the letter grades according to the following policies:
  - Grades of A through C– are posted on a transcript as "P" (Pass); credit toward a degree is earned.
  - Grades of D through E are posted on a transcript as "F" (Fail); no degree credit is earned.
6. In the case of an incomplete course elected "Pass/Fail," credit is posted only when the work has actually been completed and a grade of at least C– has been reported. "Pass/Fail" courses which are not finished lapse to "Fail," although the term and cumulative grade point averages remain unaffected.
7. If the instructor of a mandatory Credit/No Credit course believes that the amount and quality of a student's work is such that it deserves credit, CR (Credit) is posted on the transcript. If the instructor believes that a student's work does not justify the awarding of credit, NC (No Credit) is posted on the transcript. Courses offered *mandatory Credit/No Credit* are designated in the course listings.
8. Students who have transferred "non-graded" credit to the College must count that credit as part of the maximum 30 hours of "non-graded" credit which may be counted toward an LSA degree. Advanced Placement credit as well as transfer courses for which students earned grades at another institution do not count against the 30-credit limit.
9. Classes at Camp Davis may not be elected on a Pass/Fail basis (effective Spring Term 2012).
10. Non-graded courses *may* be included in a distribution plan.
11. Pass/Fail courses *may not* be included in a plan for the major or in a minor.
12. Experiential and Directed Reading/Independent Study courses that are graded on a Credit/No Credit or Satisfactory/Unsatisfactory basis *may be* included in a major program.
13. The final course in a sequence used to fulfill the Language Requirement *may not* be elected on a Pass/Fail basis. (Effective for all students admitted to the College in Fall Term, 1995 and thereafter.)



14. In computing the grade point average for honorary societies, the *reported letter grades* for "non-graded" elections are computed into the cumulative grade point average.
15. No course elected "Pass/Fail" will receive the Honors notation on the transcript or be counted as an "Honors" course for the Sophomore Honors Award.
16. A student may pay a special fee set by the Registrar's Office and request a specially prepared appendix to the transcript on which the original grades submitted for all courses elected "Pass/Fail" are listed.

## Full Time vs Part Time Status

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

The College does not require students to be enrolled full time, although this may be a requirement for financial aid or auto or health insurance. To be considered full-time, an undergraduate must be registered in at least 12 credits in a full term or 6 credits in a half-term. Students may elect up to 18 credits in a full term and 9 credits in a half-term without special approval from an academic advisor. Generally, a program of four or five courses totaling 13 to 17 credits is considered typical, and first-year students are usually advised to elect four courses (14 to 16 credits).

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

## Class Standing

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

Class Standing	Credits
First Year:	Fewer than 25 credits
Sophomore:	25 through 54 credits
Junior:	55 through 84 credits
Senior:	85 credits or more

## Closed Course, Waitlist, and Override Information

Closed class information is available from Wolverine Access.

### Closed classes

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

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

## Waitlists

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

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

Some courses are of special importance to students – for instance, declared majors or potential majors who need the course for the degree or as a prerequisite to additional work – and faculty may want to accommodate such students. There is often some attrition in the enrollment of a class; it is difficult to predict how much loss of enrollment a class might experience and the impact that overrides might have on the final numbers. Often students will attend a class, even though not officially registered, in the hope that natural attrition will free a space for them. The history of enrollment for the class and the presence of vacancies in other sections of the same class may influence a decision as to whether to issue overrides to students on the waitlist.

## Overrides

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

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

## Final Exams

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

The *Faculty Code* states:

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

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

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

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

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

#### University of Michigan's Final Exam Policy

## Dual Enrollment

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

## Dual Enrollment while in High School

The State of Michigan mandated that all public universities, effective January 3, 2013, must award credit for transferable college-level courses taken by high school students. President Coleman signed the following statement:

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

Starting with incoming students in Spring 2013, under this new policy, LSA will allow transferable dual enrollment credits to count toward LSA requirements and degrees. Admissions will review dual enrollment credit for [transfer credit](#) and they will post accepted courses to a student's U-M transcript. Students should work with their LSA academic advisor to determine how transfer credits work toward their [degree requirements](#).

## Dual Enrollment Policy Effective Through Winter 2013

Effective Through Winter 2013

Students often elect a college course while in high school through a dual enrollment program. There are three situations where these courses will not transfer.

Credit is not given:

- when the course is taught with only high school students in the class; or
- where the course is used to meet the minimum academic requirement that the College expects of all new students (e.g., four years of English); or
- where the credits are needed to meet the high school graduation requirements.

## Dual Enrollment Policy Effective Spring Summer 2013

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

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

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

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

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

experiences that are consistent with those of our incoming student body.

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

LSA Office of the Assistant Dean for Undergraduate Education

Executive Director of the Newnan LSA Academic Advising Center April 2013

## Dual Enrollment FAQ

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

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

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

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

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

See the course equivalencies database website: [http://www.ugadmiss.umich.edu/TCE/Public/CT\\_TCESearch.aspx](http://www.ugadmiss.umich.edu/TCE/Public/CT_TCESearch.aspx). This website provides information regarding how courses from other institutions will be posted to the U-M transcript.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

### Where do I send my official college transcript for potential transfer credit?

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

Office of Undergraduate Admissions

University of Michigan

300 Student Activities Building

515 East Jefferson Ann Arbor, MI 48109-1316

## Dual Enrollment with Another College or University

To take a class or classes at another college or university while also enrolled at U-M in the same term, students must get permission from their College. Honors and Residential College students must follow the procedures established by that Program and Residential College.

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

Full name  
UMID

**Term of dual enrollment****Name of the Other School Course(s) they plan to take at the other institution****Rationale for dual enrollment**

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

## Readmission

### Readmission to the College

The College of Literature, Science, and the Arts allows readmission of a student previously enrolled if the student left in good academic standing. Students who have been away for less than two years should contact the Office of the Registrar, 500 South State Street, to obtain an appointment for registration. Students who have been absent from the College for more than two full years (24 months) must apply for readmission by submitting an [Application for Reactivation](#) which is available from the Office of Academic Advising, 1255 Angell Hall. Students also must meet with an [Academic Standards Board](#) member. International students on temporary U.S. visa status (F-1 or J-1) who have missed a full year must contact the International Center to have their visa status updated.

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

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

Individuals with a bachelor's degree who want to earn a second degree must obtain permission from the Office of Undergraduate Admissions. Normally, at least two calendar years must transpire between the awarding of the first baccalaureate degree and the beginning of the second baccalaureate degree program. Applicants must pursue an academic program significantly different from that of the first baccalaureate degree. Except in the case of [joint degrees](#), the College does not award concurrent bachelor's degrees. For graduates of schools and colleges on the Ann Arbor campus, the two baccalaureate degrees should be different (for example, not two Bachelor of Arts or two Bachelor of Science degrees). The second degree program cannot be a [BGS degree](#), and students whose first degree is the BGS degree are ineligible for a second Bachelor's degree. Applicants who already have an LSA degree must earn at least 30 credits in residence in LSA beyond the credits required for the first degree, with at least 15 in the new field of the major. Graduates of another Ann Arbor unit must earn at least 30 credits while registered in LSA. The second program must include a minimum of 100 LSA credits. To be considered for admission to a second baccalaureate degree program, all applicants who have a baccalaureate degree from the Ann Arbor campus of the University of Michigan must have a 2.0 minimum grade point average.

Applicants whose first degree comes from any other institution (including [U-M Dearborn](#) and [U-M Flint](#)) will be required to complete at

least 60 credits in residence at the Ann Arbor campus. The student must be registered in LSA for at least 30 credits beyond the credits required for the first degree. The second degree program must include a minimum of 100 LSA credits. To be considered for admission to a second baccalaureate degree program, applicants must have the same minimum grade point average as the College requires for students who transfer from other institutions.

### Reinstatement after Suspension

Students may be suspended from the College

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

Since first year students often experience problems adjusting to college, the Academic Standards Board maintains more liberal policies for them than for other students. As a general rule, unless there is a significant honor point deficit the first term, freshmen are placed on probation and are permitted a second term of enrollment to improve their level of academic performance. Similarly, transfer students are given special consideration unless the first term's work in residence shows marked inability to meet the academic standards of the College. **However, there is no automatic, one-term probation period before a student may be suspended from the College.**

### Readmission/Reactivation

#### Reactivation

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

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

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

### Readmission/Reinstatement

The Board places on academic suspension students whose academic performance is endangering the likelihood of completing a degree program in the College. Suspended students must be out of registration at UM for the 14 weeks of a Fall or Winter semester; students suspended after a Winter semester must be out of registration at least until the next Winter semester. The Board expects most suspended students to complete successfully at least a semester of coursework at another college or university to demonstrate their readiness to resume work at UM. If the student identifies health, mental health, financial or family issues as having largely caused his/her academic difficulties, then the student must address these issues and produce documentation (if appropriate) verifying the issues are

manageable or no longer present. A few weeks after receiving the suspension notification, the student can meet with a Board member to determine the most effective strategy for readmission.

Students apply for readmission by writing a petition (letter) to the Board. Prior to writing the petition, students must meet with a Board member at least eight weeks prior to the term they would like to return. At this meeting, the Board member will give the student guidelines for writing the readmission petition, list any documentation the student should include with the petition, and set a deadline for submitting the petition. The student can contact the Board member during the petitioning process if he/she has any questions or concerns about readmission. The Board will review the student's petition and one of the members will e-mail a decision to the student within a week to ten days.

## Timeline for Reactivation

Specific deadlines vary with the term  
See [ro.umich.edu/calendar](http://ro.umich.edu/calendar)

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

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

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

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

[Information on Obtaining a Second Bachelor's Degree](#)

## Auditing Courses

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

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

## Your Academic Record

The Academic Record is the official record of a student's course elections, grades, and credits earned toward a degree. Since the academic record is a permanent record of a student's academic performance, it must be correct. Students who believe an error has been made on their academic records should contact the Assistant to the Academic Standards Board (1255 Angell Hall).

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

## Student Records Policy

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

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

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

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

FERPA grants students the right:

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

Access to individual student LSA advising files is restricted to official university academic advisors, members of the LSA Academic Standards Board, and clerical staff who assist in carrying out official advising or Academic Standards Board functions.

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

## Transcripts and Notations

The Academic Record is the official record of a student's course elections, grades, and credits earned toward a degree. Since the academic record is a permanent record of a student's academic performance, it must be correct. Students who believe an error has been made on their academic records should contact the Assistant to the Academic Standards Board (1255 Angell Hall).

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

A student wishing to have a transcript of the academic record sent to another college or university or to an employer can place an order online from [Wolverine Access](#). You will need a Uniqname and university password and should receive a confirmation number. Requests with paper attachments or needing special services should be brought to a Student Services site, 1210 LSA Building Street or B430 Pierpont Commons.

### Mailed or faxed requests may be sent/faxed to:

Transcript and Certification Office  
University of Michigan  
1210 LSA Building  
500 South State Street  
Ann Arbor 48109-1382  
Fax: (734) 764-5556

All requests should include dates of attendance and a student identification number. A transcript of the academic record bearing the official seal of the University of Michigan and the signature of the Registrar is forwarded *directly* to the institution or person specified by the student, assuming there is no outstanding financial commitment from the student to the University. There is no fee for official transcripts. A student has the option of ordering a paper official transcript or an electronic (PDF) official transcript (if the academic record is entirely electronic). A student may request and receive an unofficial transcript, on demand, at a student services site: 1207 LSA Building or B430 Pierpont Commons. The unofficial transcript contains additional information not included in the official transcript. It should not be used in lieu of an official transcript for the purposes of admission or employment. A copy of your unofficial transcript can be obtained from [Wolverine Access](#).

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

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

See the [Office of the Registrar](#) for details.

## Summary of Transcript Notations

### Pass/Fail

P (passed)	credit, no honor points
F (failed)	no credit, no honor points

### Credit/No Credit

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

### Satisfactory/Unsatisfactory

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

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

### Withdrawal/Drop

W (official withdrawal)	no credit, no honor points
ED (dropped unofficially)	no credit, no honor points

(A notation of ED for a graded election has the same effect on the grade point average as does an E.)

### Incomplete/Work in Progress

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

### Official Audit (VI)

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

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

*A notation of P, F, CR, NC, S, U does not affect a student's term or cumulative grade point average. A notation of I, Y, NG, or NR, if not replaced by a passing grade, eventually lapses to E or ED and, for graded elections, is computed into the term and cumulative grade point averages.*

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

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

### **Term and Cumulative Grade Point Averages**

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

### **Minimum Term and Cumulative Grade Point Averages Required**

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

### **Grading for a Two-Term Course**

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

### **No Report (NR), No Grade (NG)**

The instructor should report an NR if a student stops attending before the end of the term, but has not dropped the class or requested an Incomplete. If the NR is not resolved by the fourth week of the next fall or winter term in residence, the NR grade in a graded election is lapsed to an ED.\*The NG is recorded when a student has been registered into a class after the web grade rosters have been sent to the instructor. The NG will convert to an ED\* if unresolved after the first four weeks of the next fall or winter registration.\*An ED carries no degree credit, and the course is computed as an E in the term and cumulative grade point averages.

Students may count a maximum 30 non-graded credits toward the 120 credits required for a degree. Non-graded credits are earned in courses for which no letter grade (A through E) is recorded on the transcript.

Only those non-graded credits actually earned are counted as part of the total number of non-graded credits applicable toward a degree. A student cannot choose to elect a course by the CR/NC and S/U grading patterns; the optional non-graded pattern is P/F. Non-graded courses earn credit toward a degree but not honor points. Therefore, "Pass" (or "Credit") grades do not enter into the computation of the term or cumulative grade point averages. A change in grading pattern for a course is not permitted after the first three weeks of a full term (first two weeks of a half-term). Grading pattern choices must be modified through the registration system. Courses elected after the third week of a term may not be elected on a non-graded basis unless the course is offered as a "mandatory non-graded" course. The only exceptions to this policy are short courses (e.g., EARTH 101-115) which have started after the beginning of the term. In these cases, the grading pattern may not be changed after the second week of class. The Academic Standards Board does not grant exceptions to this policy. The College holds students responsible for ensuring the accuracy and completeness of their class schedule. Instructor approval is not required for a choice in the elected grading pattern nor should the instructor be informed of such a choice. Instructors report letter grades (A through E) for all students in their courses, except in mandatory CR/NC courses. In the case of a student who has chosen to elect a course "Pass/Fail," the Office of the Registrar converts the letter grades according to the following policies: Grades of A through C- are posted on a transcript as "P" (Pass); credit toward a degree is earned. Grades of D through E are posted on a transcript as "F" (Fail); no degree credit is earned. In the case of an incomplete course elected "Pass/Fail," credit is posted only when the work has actually been completed and a grade of at least C- has been reported. "Pass/Fail" courses which are not finished lapse to "Fail," although the term and cumulative grade point averages remain unaffected. If the instructor of a mandatory Credit/No Credit course believes that the amount and quality of a student's work is such that it deserves credit, CR (Credit) is posted on the transcript. If the instructor believes that a student's work does not justify the awarding of credit, NC (No Credit) is posted on the transcript. Courses offered mandatory Credit/No Credit are designated in the course listings. Students who have transferred "non-graded" credit to the College must count that credit as part of the maximum 30 hours of "non-graded" credit which may be counted toward an LSA degree. Advanced Placement credit as well as transfer courses for which students earned grades at another institution do not count against the 30-credit limit. Classes at Camp Davis may not be elected on a Pass/Fail basis (effective Spring Term 2012). Non-graded courses may be included in a distribution plan. Pass/Fail courses may not be included in a plan for the major or in a minor. Experiential and Directed Reading/Independent Study courses that are graded on a Credit/No Credit or Satisfactory/Unsatisfactory basis may be included in a major program. The final course in a sequence used to fulfill the Language Requirement may not be elected on a Pass/Fail basis. (Effective for all students admitted to the College in Fall Term, 1995 and thereafter.) In computing the grade point average for honorary societies, the reported letter grades for "non-graded" elections are computed into the cumulative grade point average. No course elected "Pass/Fail" will receive the Honors notation on the transcript or be counted as an "Honors" course for the Sophomore Honors Award. A student may pay a special fee set by the Registrar's Office and request a specially prepared appendix to the transcript on which the original grades submitted for all courses elected "Pass/Fail" are listed.

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

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

## Grading Issues

### Pass-Fail

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

1. A student cannot choose to elect a course by the CR/NC and S/U grading patterns; the *optional* non-graded pattern is P/F.
2. Non-graded courses earn credit toward a degree but not honor points. Therefore, "Pass" (or "Credit") grades do not enter into the computation of the term or cumulative grade point averages.
3. *A change in grading pattern for a course is not permitted after the first three weeks of a full term (first two weeks of a half-term).* Grading pattern choices must be modified through the registration system. Courses elected after the third week of a term may not be elected on a non-graded basis unless the course is offered as a "mandatory non-graded" course. The only exceptions to this policy are *short courses* (e.g., EARTH 101-115) which have started after the beginning of the term. In these cases, the grading pattern may not be changed after the second week of class. **The Academic Standards Board does not grant exceptions to this policy.**
4. *The College holds students responsible for ensuring the accuracy and completeness of their class schedule.*
5. Instructor approval is not required for a choice in the elected grading pattern nor should the instructor be informed of such a choice. Instructors report letter grades (A through E) for all students in their courses, except in mandatory CR/NC courses. In the case of a student who has chosen to elect a course "Pass/Fail," the Office of the Registrar converts the letter grades according to the following policies:
  - Grades of A through C– are posted on a transcript as "P" (Pass); credit toward a degree is earned.
  - Grades of D through E are posted on a transcript as "F" (Fail); no degree credit is earned.
6. In the case of an incomplete course elected "Pass/Fail," credit is posted only when the work has actually been completed and a grade of at least C– has been reported. "Pass/Fail" courses which are not finished lapse to "Fail," although the term and cumulative grade point averages remain unaffected.
7. If the instructor of a mandatory Credit/No Credit course believes that the amount and quality of a student's work is such that it

deserves credit, CR (Credit) is posted on the transcript. If the instructor believes that a student's work does not justify the awarding of credit, NC (No Credit) is posted on the transcript. Courses offered *mandatory Credit/No Credit* are designated in the course listings.

8. Students who have transferred "non-graded" credit to the College must count that credit as part of the maximum 30 hours of "non-graded" credit which may be counted toward an LSA degree. Advanced Placement credit as well as transfer courses for which students earned grades at another institution do not count against the 30-credit limit.
9. Classes at Camp Davis may not be elected on a Pass/Fail basis (effective Spring Term 2012).
10. Non-graded courses *may* be included in a distribution plan.
11. Pass/Fail courses *may not* be included in a plan for the major or in a minor.
12. Experiential and Directed Reading/Independent Study courses that are graded on a Credit/No Credit or Satisfactory/Unsatisfactory basis *may be* included in a major program.
13. The final course in a sequence used to fulfill the Language Requirement *may not* be elected on a Pass/Fail basis. (Effective for all students admitted to the College in Fall Term, 1995 and thereafter.)
14. In computing the grade point average for honorary societies, the *reported letter grades* for "non-graded" elections are computed into the cumulative grade point average.
15. No course elected "Pass/Fail" will receive the Honors notation on the transcript or be counted as an "Honors" course for the Sophomore Honors Award.
16. A student may pay a special fee set by the Registrar's Office and request a specially prepared appendix to the transcript on which the original grades submitted for all courses elected "Pass/Fail" are listed.

### Incompletes

An "Incomplete" (denoted on the transcript by the symbol "I") may be reported only if the amount of unfinished work is small, the work is unfinished for reasons acceptable to the instructor, and the student's standing in the course is at least "C-". An "I" grade not finished by the incomplete deadline or an approved extended deadline lapses to "ILE".

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

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

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

The "I" grade itself does not affect the term or cumulative grade point averages. Students may finish the work for incompletes while not in



residence even if the Board has dismissed them from the College for reasons of unsatisfactory academic performance.

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

#### **Incomplete, Time Extension for (PDF)**

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

### **Frequently Asked Question About Incompletes**

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

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

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

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

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

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

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

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

## **Y Grades**

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

## **Grade Review**

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

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

### **Action Pending**

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

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

### **Probation Actions**

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

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

*Special Probation* is assigned to students whose record leaves some question about whether immediate continuation in the College is advisable. These students are required to meet with an Academic Standards Board member within the deadline specified in the notification letter to plan appropriate course electives. **A student who fails to make this appointment will be disenrolled from the term.**

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

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

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

## Suspension

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

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

## Reinstatement

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

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

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

Relevant supporting documentation should be attached to all reinstatement petitions. Some examples of appropriate documentation are: statements from health care providers if academics were impacted by physical or mental health issues, transcript and/or instructor

statements if taking classes elsewhere, letter from employer if working during suspension period, *etc.*

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

## Reinstatement after Suspension

Students may be suspended from the College

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

Since first year students often experience problems adjusting to college, the Academic Standards Board maintains more liberal policies for them than for other students. As a general rule, unless there is a significant honor point deficit the first term, freshmen are placed on probation and are permitted a second term of enrollment to improve their level of academic performance. Similarly, transfer students are given special consideration unless the first term's work in residence shows marked inability to meet the academic standards of the College. ***However, there is no automatic, one-term probation period before a student may be suspended from the College.***

## Dismissal

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

## Grade Grievance

### Grade Change Policy

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

The Academic Standards Board cannot approve any Supplementary Grade Report for a grade change when "extra work is submitted," "student rewrote a paper," "student retook the final," or another special arrangement unless the instructor is able to provide the Board with a statement that the arrangement giving this one student the opportunity to raise his/her grade was an arrangement available to and known by every student in the course. If the grade is being changed because the work was submitted after grades were due and no "incomplete" grade was originally given, the grade will be posted with and "I" as long as the work was completed during the incomplete deadline period.

When the instructor is changing a grade from "incomplete", they must include the date the student submitted their completed work. Even if the course has lapsed to E the grade can still be approved for posting if the work completed by the student was within the incomplete deadline date or the extended deadline date.

### Grade Grievance Procedures

"The Office of Student Academic Affairs (formerly the LSA Administrative Board) shall insure that each department has an

efficient procedure for dealing with student complaints regarding alleged unfair or improper grading, and shall insure that these procedures are followed in individual cases."

— Faculty Code A.205, 1984 edition

## Honors and Awards

### Honors and Awards for Superior Academic Achievement

#### Historical Distinction Levels

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

Degrees with distinction are awarded on the basis of rank in class. Students who have completed at least 58 credits in residence, at least 45 of which are "graded" (A+ to D-), and rank in the top three percent of their class are recommended for a degree "with Highest Distinction." Those students who rank in the top 10 percent of their class but not in the top three percent are recommended for a degree "with High Distinction." Those students who rank in the top 25 percent of their class but not in the top 10 percent are recommended for a degree "with Distinction." A notation is made on the diploma and the transcript. [The GPA ranges for the distinction notations](#) are determined each May, based on the cumulative GPAs of LSA graduates of the May degree period. Those same numbers are used for the August and December degree periods of that calendar year.

#### Department Awards

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

#### University Honors

- Honors Convocation
- James B. Angell Scholars
- University Honors Designation
- William J. Branstrom Award

#### Honors at Graduation

- Distinction
- Highest Honors/High Honors/Honors

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

#### National Honor Societies

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

#### Student Honor Societies

The [University of Michigan's Maize Pages](#) include listings of Student Honor Societies.

#### LSA Continuing Student Scholarships

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

#### Scholarships Requiring U-M Endorsement

These national scholarship programs accept applications only from students who have been endorsed by the University of Michigan. There is an internal competition for most of these awards and the UM deadlines are set considerably earlier than the national deadlines to accommodate this process. There is information about these and other scholarship opportunities, including awards specifically for [LSA Honors students](#). Also see the [Provost's Council for Student Honors webpage](#).

## Dean's Certification Forms

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

If the form requires the evaluation of intended course elections elsewhere — for example if you are applying to a study abroad program which asks how your elections there might fulfill degree requirements here — you need to see an academic advisor in the Advising Center to discuss your program goals and plans. Otherwise, click [here](#) for the form.

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

## Religious Holidays

Below is the University policy on religious/academic conflicts established by the Office of the Provost. Instructors should review the posted religious holidays for the [upcoming year](#) on the Provost's website and do their best to avoid scheduling exams on those days. When students bring potential conflicts to your attention, you may contact the Assistant Dean's office to discuss options for accommodating students.

### Information for Students Regarding Religious Holidays and Academic Conflicts

Although the University of Michigan, as an institution, does not observe religious holidays, it has long been the University's policy that every

reasonable effort should be made to help students avoid negative academic consequences when their religious obligations conflict with academic requirements. Absence from classes or examinations for religious reasons does not relieve students from responsibility for any part of the course work required during the period of absence. Students who expect to miss classes, examinations, or other assignments as a consequence of their religious observance shall be provided with a reasonable alternative opportunity to complete such academic responsibilities. It is the obligation of students to provide faculty with reasonable notice of the dates of religious holidays on which they will be absent. Such notice must be given by the drop/add deadline of the given term. Students who are absent on days of examinations or class assignments shall be offered an opportunity to make up the work, without penalty, unless it can be demonstrated that a make-up opportunity would interfere unreasonably with the delivery of the course. Should disagreement arise over any aspect of this policy, the parties involved should contact the Department Chair, the Dean of the School, or the Ombudsperson. Final appeals will be resolved by the Provost.

Visit the [Calendars page](#) on the Office of the Provost website.

[Religious Holidays might pose conflicts with the academic calendar](#)

## ***Academic Integrity***

### **LSA Community Standards of Academic Integrity**

The LSA undergraduate academic community, like all communities, functions best when its members treat one another with honesty, fairness, respect, and trust. The College holds all members of its community to high standards of scholarship and integrity. To accomplish its mission of providing an optimal educational environment and developing leaders of society, the College promotes the assumption of personal responsibility and integrity and prohibits all forms of academic dishonesty and misconduct. Academic dishonesty may be understood as any action or attempted action that may result in creating an unfair academic advantage for oneself or an unfair academic advantage or disadvantage for any other member or members of the academic community. Conduct, without regard to motive, that violates the academic integrity and ethical standards of the College community cannot be tolerated. The College seeks vigorously to achieve compliance with its community standards of academic integrity. Violations of the standards will not be tolerated and will result in serious consequences and disciplinary action.

### **The Office of the Assistant Dean**

Among the primary responsibilities of the Office of the Assistant Dean (Student Academic Affairs) is leadership of the LSA Academic Judiciary Committee and oversight of the academic judiciary processes in the College. The Assistant Dean is responsible for ensuring that a fair and judicious process exists for adjudicating cases of academic misconduct when the LSA Community Standards of Academic Integrity may have been violated. The Office of the Assistant Dean works to promote and maintain a high degree of academic integrity in the College.

## ***Academic Misconduct***

As described in our LSA Community Standards of Academic Integrity, “academic dishonesty may be understood as any action or attempted action that may result in creating an unfair academic advantage for oneself or an unfair academic advantage or disadvantage for any other member or members of the academic community.”

Examples of academic misconduct include but are not limited to the following:

### **Cheating**

Cheating is committing fraud and/or deception on a record, report, paper, computer assignment, examination, or any other course requirement. Examples of cheating include:

- Obtaining work or information from someone else and submitting it under one’s own name.
- Using, or attempting to use, unauthorized notes, or study aids, or information from another student or student’s paper on an examination.
- Communicating answers with another person during an exam.
- Altering graded work after it has been returned, and then submitting the work for regrading.
- Allowing another person to do one’s work and submitting it under one’s own name.
- Using electronic devices (e.g., phones, watches, calculators) that provide answers or other unauthorized information for exams.
- Taking an exam for another person or having someone take an exam for you.
- Fabricating data which were not gathered in accordance with the appropriate methods for collecting or generating data and failing to include a substantially accurate account of the method by which the data were gathered or collected.

### **Plagiarism**

Plagiarism is representing someone else’s ideas, words, statements, or other work as one’s own without proper acknowledgement or citation. Examples of plagiarism include:

- Copying word-for-word or lifting phrases, special terms, or definitions from a source or reference (whether oral, printed, or on the internet) without proper attribution.
- Paraphrasing, that is, using another person’s written words or ideas, albeit in one’s own words, as if they were one’s own thought.
- Borrowing facts, statistics, graphs, or other illustrative material without proper reference, unless the information is common knowledge, in common public use.
- Submitting substantially the same paper for two or more classes (or the same class) in the same or different terms (i.e., self-plagiarism) without the expressed approval of each instructor.

### **Unacceptable Collaboration**

Collaboration is unacceptable when a student works with another or others on a project and then submits written work which is represented explicitly or implicitly as the student’s own individual work. Examples of unacceptable collaboration include:

- Using answers, solutions, or ideas that are the result of collaboration without citing the fact of collaboration.

- Discussing/providing/taking solutions or answers with/to/from other students, when instructions are for students to complete that portion of the work independently.

## Falsification of Data, Records, and Official Documents

- Fabrication of data
- Altering academic records, or documents related to academic records
- Misrepresentation of academic status, including attendance
- Forging a signature of authorization or falsifying information on an official academic document, grade report, letter of recommendation/reference, letter of permission, petition, or any document designed to meet or exempt a student from an established class, College, or University academic regulation.

## Aiding and Abetting Dishonesty

Providing material or information to another person which allows for these materials or information to be used improperly. This includes both deliberate and inadvertent actions.

## Unauthorized or Malicious Interference/Tampering with Office Property

Unauthorized or malicious interference or tampering with faculty, administrative, or staff offices, including computers, is considered an academic offense and, as such, is subject to College judicial procedures and sanctions.

## Classroom Disturbances

Classroom disturbances can also serve to create an unfair academic advantage for oneself or disadvantage for another member of the academic community. Some examples of actions that may violate the LSA Community Standards of Academic Integrity include:

- Interference with the course of instruction or an exam to the detriment of other students.
- Disruption of classes or other academic activities in an attempt to stifle academic freedom of speech.
- Failure to comply with the instructions or directives

## Procedures for Resolving Academic Misconduct

Each member of our academic community is responsible for supporting academic integrity. Cases in LSA courses of alleged violations of academic integrity are to be referred to the Office of the Assistant Dean (Student Academic Affairs) (See Cross School/College Cases section below if non-LSA courses or students are involved). Faculty, staff, or students are encouraged to contact the Office of the Assistant Dean for consultation, or to report potential incidents of academic misconduct (734-764-7297, [lsajudicial@umich.edu](mailto:lsajudicial@umich.edu), 1213 Angell Hall)

A student may be accused of academic misconduct if a faculty, staff, or student believes, after reasonable investigation as appropriate, that academic misconduct has occurred and that the student has some responsibility for it. An instructor who believes academic misconduct

has occurred may either give the student an admonition and a poor or failing grade on the work, or file a formal complaint of academic misconduct with the Assistant Dean, who then will handle the case.

Students accused of academic misconduct may not change registration in the course (e.g., drop the course, change grading option to P/F) while the case is pending, or if a finding of academic misconduct has been made. While the case is being investigated and/or adjudicated, the presumption of innocence means that the student may continue to attend class and receive grades. During that time, however, the student may not receive credit for the course in which the alleged misconduct occurred and may not be graduated. If a final grade must be reported for the course while the case is pending, the instructor should report the course grade as NR (no report), not as an I (incomplete). NR is a temporary, neutral grade that may be used in special circumstances where a final grade is not yet able to be reported.

All materials relating to a formal complaint of academic misconduct or to a report of admonition by an instructor will be kept in confidence in the Office of the Assistant Dean for Undergraduate Education per [LSA Records Policy](#).

## Cross-School/College Cases of Academic Misconduct

In cases where a student registered in another School or College at the University of Michigan (e.g., Engineering, Nursing, Kinesiology, Art and Design) is alleged to be responsible for academic misconduct in an LSA course, the authority of the College of LSA extends only to determining whether or not the alleged action is a violation of the LSA Community Standards of Academic Integrity. If so, the instructor is free to assign whatever grade penalty he or she determines is appropriate. The Office of the Assistant Dean for Undergraduate Education and Executive Director of the Newnan LSA Academic Advising Center will recommend a sanction or sanctions to the appropriate office of the other School or College in which the student is registered, but that School or College has the responsibility for imposing any recommended or other substitute or further sanction it determines is appropriate.

In cases where a student registered in LSA has been found responsible for academic misconduct in a course offered by another School or College at the University of Michigan, the Assistant Dean for Undergraduate Education will notify the student in writing of the disposal of the case and of any sanction or sanctions being imposed by the Assistant Dean. The student has the right to appeal the sanction (but not issues of responsibility or innocence) to the Assistant Dean.

## Office of the Assistant Dean Resolution

Members of the academic community may file a complaint of academic misconduct with the Office of the Assistant Dean for Undergraduate Education ([lsajudicial@umich.edu](mailto:lsajudicial@umich.edu), 734-764-7297, 1213 Angell Hall). The complaint for any alleged instance of academic misconduct should be filed as soon as practicable from the date of occurrence. When choosing this option, the instructor should not impose any penalty or require any remedial work until the case has been resolved. Instructors should notify the student of their concern, and inform them that they will be contacted by the Office of the Assistant Dean.

Once a complaint has been filed with the Assistant Dean, it may not be withdrawn without the approval of the Assistant Dean. Also, a student against whom a complaint of academic misconduct has been filed may not change registration in the course (e.g., drop the course, change grading options) in which the complaint is pending or in which a finding of academic misconduct is made.

Instructors should send via email to [lsajudicial@umich.edu](mailto:lsajudicial@umich.edu), or in person to 1213 Angell Hall, the following information. Note that all documents may be shared with the accused student(s):

- description of the incident
- student name and UMID
- course name and number
- class syllabus
- assignment/exam instructions
- student exam/homework/paper (electronic copies are fine; if originals are needed they will be requested)
- any other supporting documentation (e.g., work of other students on the same assignment that demonstrates how unusual the student's work is, work of the same student that would illustrate a change in pattern/style and demonstrates how unusual the work is, etc.).

The Office of the Assistant Dean will then schedule a meeting with the Assistant Dean or the Assistant Dean's designee to discuss the case. The Assistant Dean or designee has the authority to determine, based upon the information available, whether a violation of the LSA community standards of academic integrity has occurred and the student is responsible for academic misconduct.

Following the meeting, a decision will be made and relayed to the student, with a copy to the instructor, via email. If a student is found responsible for academic misconduct, appropriate grade penalties for the infraction will be at the discretion of the instructor in accordance to the syllabus if applicable. In addition, the student may also be assigned college sanctions by the Office of the Assistant Dean. If a student is found not responsible for academic misconduct, we would ask that instructors grade the student accordingly for the assignment.

Barring unforeseen circumstances, cases will be resolved within the academic term (and typically within a week or two) in which the incident occurs.

### Student Meeting with the Assistant Dean

In meeting with the Assistant Dean or designee the student may present any relevant material or statements in his/her behalf. The student will have the right, prior to the meeting, to review relevant original materials in the Office of the Assistant Dean and to obtain copies of such materials if desired. In the meeting the Assistant Dean or designee will describe the charges made, detail the evidence supporting those charges, and review the range of College sanctions (e.g., disciplinary probation, community service, suspension). This is an opportunity for the student to be heard and to present his/her side of the incident. Typically in each meeting a representative of the LSA Student Honor Council sits in attendance and participates, though acting neither as an advocate for nor against the student.

The Assistant Dean or designee has the authority to determine, based upon the information available, whether a violation of the LSA community standards of academic integrity has occurred and the student is responsible for academic misconduct. The student will then be informed by letter, with an electronic (email) copy to the instructor(s), of the decision and sanction(s), if any, to be imposed.

If the student against whom the complaint of alleged academic misconduct has been reported does not make timely arrangements for a meeting to take place in the Office of the Assistant Dean for

Undergraduate Education, then the Assistant Dean may make a determination in the case on the basis of the evidence presented.

### Optional Student Consultation with Honor Council President

A student who has been accused of academic misconduct may wish to speak with the President of the LSA Student Honor Council, who can talk about the process, as well as answer any general questions the student may have. Students have often found it helpful to talk with the President in advance of their meeting with the Office of the Assistant Dean. The President of the Honor Council is not involved in any decision-making, nor are they privy to details of individual cases.

### Sanctions

If a student is found responsible for academic misconduct, the Office of the Assistant Dean has the authority to determine appropriate administrative sanctions (i.e., sanctions unrelated to a course grade). Sanctions that may be imposed by the Assistant Dean include, but are not limited to:

- a letter of reprimand
- writing of a reflective essay
- a defined period of disciplinary probation, with or without the attachment of conditions, notated on official or unofficial transcript
- tutorial or workshop completion
- assigned hours of community service
- a defined period of suspension, with or without the attachment of conditions, notated on official or unofficial transcript
- permanent expulsion from the College
- withholding of a degree, or
- any combination of the previously listed sanctions.

When an instructor has cause to question a student's work based upon inferential circumstances but the student's responsibility cannot be established, the Assistant Dean may send a formal "letter of warning" to the student.

If the student is found responsible for academic misconduct, the course instructor is free to determine the effect the violation will have on grades assigned to the student for specific course assignments and/or the final course grade. Any grade entered for a student in a course in which a complaint of academic misconduct is pending, whether for a specific course assignment or the final course grade, is subject to modification after all proceedings and appeals are concluded.

### Appealing a Decision: The LSA Academic Judiciary Committee

A student found responsible for academic misconduct may submit, through the Office of the Assistant Dean for Undergraduate Education, a written appeal to the LSA Academic Judiciary Committee. The student must submit this written appeal in a timely manner. The written notice of appeal must state what is being appealed — whether the finding of academic misconduct, the sanction imposed, or both — and must describe in detail the grounds for the appeal. The grounds for appeal may be one or more of the following:

1. the demonstration of a significant error in the hearing process or procedures
2. the availability of compelling new evidence
3. the demonstration of bias on the part of anyone involved in the hearing process or procedures
4. misconduct on the part of the individual adjudicating the hearing  
or
5. demonstration that any rights of the accused student have been violated.

Successful submissions for the case to be reviewed on appeal are rare and exceptional.

The LSA Academic Judiciary Committee has sole discretion to determine if sufficient grounds exist for consideration of an appeal. If the request for appeal has merit, the LSA Academic Judiciary Committee shall select a panel of its members (typically four LSA faculty members and three LSA undergraduates) to review the appeal as soon as practical after the decision to grant the review has been made.

Following its review, the College Academic Judiciary Committee may sustain or reverse the finding of academic misconduct. If the finding of academic misconduct stands, the Committee may sustain, modify, or increase the sanction imposed. The student will be informed by letter of the Committee's decision.

## Admonition or Instructor Resolution

Members of the instructional faculty may choose to resolve an incident of alleged academic misconduct themselves. That is, an instructor who determines that a student is responsible for an act of misconduct may impose an admonition, or warning, plus a grade reduction and/or remedial work, without filing a formal complaint of academic misconduct.

If an instructor should choose to resolve a case of academic misconduct by admonition, the following conditions apply:

- the student is fully apprised of the allegation(s) and shown any evidence
- the student accepts responsibility for the incident
- the student accepts the grade penalty and/or remedial work assigned by the instructor
- the instructor should report the admonition to the Assistant Dean for Undergraduate Education ([lsajudicial@umich.edu](mailto:lsajudicial@umich.edu)).

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

Reporting the admonition to the Office of the Assistant Dean is important so that repeat offenses can be tracked. No further disciplinary sanction will be imposed by the Office of the Assistant

Dean. The admonition report will be kept on file in the Office of the Assistant Dean during the student's enrollment. If the student is ever again charged or admonished for academic misconduct, the prior admonition will count as proof that the student has been warned about misconduct and specifically informed about the community standards of integrity. Therefore, the admonition may lead to a more severe sanction for any future offense.

The student may contest any instructor's admonition by bringing the case to the attention of the Assistant Dean for Undergraduate Education. This must be done in a timely manner (typically within ten class days after receiving the admonition). For example, the student may feel that the instructor has imposed an inappropriate penalty. When this occurs, the case will be fully investigated, all relevant information will be reviewed, principles of fairness and due process will apply, and disposition of the student appeal will be based upon its merits.

## Resources for Students

### Frequently Asked Questions (by LSA Students)

#### 1. I have been notified by the Office of the Assistant Dean that I may have violated the LSA Community Standards for Academic Integrity and that I am to call to schedule a meeting. What does this mean?

It means that one or more of your instructors has reported a complaint of academic misconduct to the Office of the Assistant Dean. The Assistant Dean's Office will contact you and any other student named in the complaint. Students meet individually with the Assistant Dean or designee to discuss both the adjudication process and the complaint so that the Assistant Dean can reach a decision about your responsibility for the alleged academic misconduct or continue with further investigation before reaching a decision. You should expect to answer questions from the Assistant Dean about your knowledge of the complaint. The meeting between you and the Assistant Dean usually will include a representative of the [LSA Student Honor Council](#).

#### 2. Is the process for handling complaints of academic misconduct a confidential one?

Yes. The Office of the Assistant Dean is committed to maintaining the confidentiality of all judicial processes in LSA.

#### 3. What are my rights if I have been accused of academic misconduct?

Most fundamentally, each student is presumed innocent of an alleged violation of the LSA Community Standards of Academic Integrity unless the student has accepted responsibility for the alleged misconduct or until the student has been found responsible by the Assistant Dean after a complaint has been reported to the Assistant Dean's Office and the case has been adjudicated. Presumption of innocence means a fair and judicious process for determining responsibility.

You have a right to know the nature of the charge and a right to a copy of any evidence used in alleging a violation of the LSA Community Standards of Academic Integrity. You also have a right to have the case adjudicated by the Office of the Assistant Dean and a right to submit an appeal of the Assistant Dean's decision to the LSA Academic Judiciary Committee.

#### 4. What if I had no intention of violating the LSA Community Standards of Academic Integrity?

An unintentional as well as an intentional action can constitute a violation and be judged an instance of academic misconduct. Incidents of academic misconduct may result not only from willfully violating the

LSA Community Standards of Academic Integrity, but from such things, for example, as academic carelessness or sloppiness, including “accidents” and “mistakes”; ignorance of LSA or class policies, rules, or regulations; or experience with a different educational system. If a reasonable person in your situation should have been aware that the action was a violation of academic integrity, then you will be found responsible for the alleged academic misconduct.

### **5. How likely is it that if I am found responsible for a first offense of academic misconduct I will be sanctioned with suspension from the College?**

It CAN happen, but it usually does not. In finding a student responsible for a first offense of academic misconduct, the Assistant Dean usually imposes a lesser sanction or sanctions. A student might be sanctioned, for example, with a specified period of disciplinary probation with a notation to that effect on the student’s transcript and a specified number of hours of approved community service. (The notation of disciplinary probation is expunged from the transcript at the end of the probation period.) The entire judicial process is always intended to be educational and the sanction the Assistant Dean imposes is intended to be appropriate to the seriousness of the violation.

### **6. Should I expect automatically to fail the course if I have admitted to or been found responsible for academic misconduct?**

No, but the decision about a particular assignment and/or course grade is completely within the discretion of the course instructor. Most instructors whose policy is automatically to fail the student on both the assignment and in the course will have a written statement to that effect on their course syllabus.

#### **Resources**

- [Academic Integrity Quiz](#)
- [Sweetland Center for Writing](#)
  - [Beyond Plagiarism](#)
    - [Finding and Using Sources](#)
  - [Writing Guide: Integrating Textual Evidence](#)
  - [Writing Support](#)
- Library
  - [ALA 105: Digital Research: Critical Concepts & Strategies](#) (1 credit minicourse CR/NC)

## ***Resources for Instructors***

### **Frequently Asked Questions (by LSA Instructors)**

#### **1. Does LSA have an Honor Code for students, or something similar?**

The College of LSA does not have an Honor Code to which its students pledge, but this does not mean we are any less committed to honesty and academic integrity than institutions with Honor Codes. The College does have a statement of LSA Community Standards of Academic Integrity and expects all of its members to uphold these Standards.

#### **2. What should I do if I think I have an incident of academic misconduct?**

Contact the Office of the Assistant Dean (Student Academic Affairs; 1213 Angell Hall, 764-7297, [Isajudicial@umich.edu](mailto:Isajudicial@umich.edu)). Your questions and options can be discussed, and the Office will assist you in making your

decision about whether to report a complaint of academic misconduct or not.

#### **3. Do I have to notify or speak to the student before reporting a complaint of academic misconduct?**

No, it isn’t necessary, but the choice is yours. When you report a complaint to the Office of the Assistant Dean, the student is notified and is asked to call the Office to schedule an appointment. Whether you have contacted the student about the complaint before the appointment in the Assistant Dean’s Office is entirely up to you. Please feel free also, however, to get in touch with the Office of the Assistant Dean with any questions or concerns about your options or your contacts with the student.

#### **4. Can the student contact me?**

Yes, the student who has had a formal complaint of academic misconduct reported to the Office of the Assistant Dean against him or her may contact you, but you are in no way obligated to discuss the case or any aspect of it with the student. You may simply let the student know that the matter has been forwarded to the Office of the Assistant Dean.

#### **5. Can I just fail the student and not go to the Office of the Assistant Dean?**

No, not without the student’s acceptance of responsibility for the incident and the grade sanction to be imposed.

#### **6. Can I simply resolve the case myself?**

The general expectation in LSA is that complaints of academic misconduct will be reported to the Office of the Assistant Dean and resolved at that level. This can assure that due process is followed, that the process is educational, that fair and similar sanctions can be assigned in similar incidents, and that the records of violators are maintained accurately and in confidence. It is the case, however, especially when the violation is not egregious, that the individual instructor may resolve an incident. Three conditions, however, always apply and must be attended to:

1. You must fully apprise your student of the allegation and show the student any evidence, if requested, that you have
2. The student must accept responsibility for the incident
3. The student must accept the grade and/or remedial work you assign.

You also should document the student’s acceptance of responsibility and of your sanction(s) and verify that the conditions listed above have been met. Finally, you should report your handling of the incident to the Office of the Assistant Dean ([Isajudicial@umich.edu](mailto:Isajudicial@umich.edu)).

#### **7. If I resolve an incident myself, why do I have to report it?**

It is important when you resolve an incident of academic misconduct yourself to report your handling of the case to the Office of the Assistant Dean (1213 Angell Hall; 764-7297; [Isajudicial@umich.edu](mailto:Isajudicial@umich.edu)) so that the Office can track repeat offenses. A student responsible for a second offense will be called in to the Assistant Dean’s Office, but otherwise no additional action will be taken.

#### **8. What do I need to do to file a complaint of academic misconduct?**

You may submit your complaint either by email to [Isajudicial@umich.edu](mailto:Isajudicial@umich.edu); or by campus or U.S. mail to Assistant Dean Esrold Nurse, 1213 Angell Hall, Ann Arbor, MI 48109-1003; or by delivery to the first floor of Angell Hall, #1213, inside the Newman LSA



Academic Advising Center. In submitting a case to the Office of the Assistant Dean, please include:

- description of the nature of the incident
- student name and UMID
- course name and number
- class syllabus
- assignment/exam instructions
- student exam/quiz/paper (electronic copies are fine; if originals are needed they will be requested)
- any other supporting documentation (e.g., work of other students on the same assignment that demonstrates how unusual the student's work is, work of the same student that would illustrate a change in pattern/style and demonstrates how unusual the work is).

Please be aware that all information provided to the Office of the Assistant Dean is considered evidence and may be shared with the accused student(s).

#### **9. How much evidence do I need to file a complaint?**

How much evidence you will need is determined largely by the type of complaint you are reporting and your goals in reporting it to the Office of the Assistant Dean. While the Assistant Dean holds to a high standard in the adjudication of each academic misconduct case, the Office is not a court of law in which the burden of proof is "beyond a reasonable doubt." The burden of supporting the complaint is "more likely than not." The Assistant Dean's goal in each case always is that the process be educational regardless of the outcome of the complaint. You should know, too, that additional evidence sometimes is discovered during the investigation by the Office of the Assistant Dean. If you have questions about the amount of evidence you have or the burden of proof, please call the Office at 764-7297.

#### **10. Do I participate in the adjudication of the case with the Assistant Dean?**

No. Once you file a complaint of academic misconduct with the Office of the Assistant Dean, the case is adjudicated by the Assistant Dean or designee. You may be contacted for clarification about the complaint or consulted about the position the student has taken, but very little of your time will be required when this occurs. A representative of the LSA Student Government Honor Council regularly sits in on the meeting between the Assistant Dean or designee and the student. In exceptional and rare cases, an appeal of the decision by the Assistant Dean or designee will be heard by the LSA Academic Judiciary Committee, and if that should occur, you then might participate.

#### **11. Can I direct the student simply to drop my course?**

No. A student charged with academic misconduct may not change registration in the course (e.g. drop the course, change grading options) in which a charge is pending or in which a finding of academic misconduct has been made.

#### **12. Can I find out from the Office of Assistant Dean if the student has been found responsible in any other academic misconduct incident?**

No. Federal regulations do not allow the Office of the Assistant Dean for Undergraduate Education and Executive Director of the Newnan LSA Academic Advising Center to share that kind of information about a student, but the Office does maintain such records on LSA students.

#### **13. If it is time to submit course grades at the end of a term, what should I do?**

If a final grade must be reported for the course while the case is pending before the Assistant Dean, you should report the course grade as NR (no report), and not as I (incomplete). NR is a temporary, neutral grade that may be used in special circumstances where you are not yet able to report a final grade. You will be notified, as soon as possible, of the resolution of the case, and you then should submit the appropriate grade on a Supplemental Grade Report (SGR) form available from your department office.

#### **14. Will I be informed of the outcome of the complaint?**

YES. The Assistant Dean or designee has the authority to determine, based upon all the information available, whether a violation of academic integrity has occurred. The student then will be informed by letter, with an email copy to you, of the decision and sanction(s), if any, to be imposed.

#### **15. If a student is responsible for academic misconduct, should that student automatically be assigned a failing grade for the course?**

The course grade is your decision. When a student is found responsible for academic misconduct by the Assistant Dean, most instructors will fail the student for that assignment. Sometimes the assignment is large enough that failing it leads to failure in the course. Some instructors, however, will fail the student in the course because that is their policy. It is strongly recommended that instructors state on the course syllabus their expectations of academic integrity and any policy involving course failure for academic misconduct. The Assistant Dean can tell you of different grading decisions made by other faculty members.

#### **Resources**

- [Library resources on Academic Integrity](#)
- Citation and Plagiarism ([Sweetland Center for Writing](#))
  - [Teaching Citation and Documentation Norms](#)
  - [Beyond Plagiarism](#)
- [Academic Integrity in the Classroom](#) (CRLT: Center for Research on Learning and Teaching)
  - [Promoting Academic Integrity in the Classroom](#)
  - Note that CRLT instructional consultants can help instructors to preserve their pedagogical goals while minimizing the likelihood of cheating and plagiarism.
- [Integrity Quiz](#)

# LSA Departments and Programs: Majors and Minors

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

*For official and updated information, please view the LSA website:*

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

# Department of Afroamerican and African Studies

## Afroamerican and African Studies (Major)

Effective Fall 2011

Majoring in Afroamerican and African Studies will allow you to gain a broad understanding of the African Diaspora — the varied cultures of African-descended people around the globe — while at the same time allowing you to develop specialized knowledge about one of three major geographic areas within the African Diaspora: Africa, the Americas, or the Caribbean.

### Advising

The [DAAS Advising Center](#) (5511 Haven Hall) is staffed with faculty and staff eager to provide academic advising on the DAAS curriculum for any student interested in these fields of study, whether pursuing a major, a minor, or one course. Call (734) 764-5513 or drop by during the posted hours. The DAAS Advising Center also sponsors final exam study breaks, informational meetings on graduate study, and other such events.

For more information, please contact: [daasadvising@umich.edu](mailto:daasadvising@umich.edu)

### Prerequisites

AAS 111: Introduction to Africa and Its Diaspora (4 credits).

### Requirements

**Minimum Credits:** 34

#### 1. Two courses at the 200 level (6 credits total):

- **One Area Course.** This course must focus on one of three major geographic areas of the African Diaspora: Africa, the Americas, or the Caribbean. The following courses best satisfy this requirement:
  - AAS 200: Introduction to African Studies
  - AAS 201: Introduction to African American Studies
  - AAS 202: Introduction to Caribbean Studies
- **One Cross-Area Course OR Second Area Course.** If you choose to take a cross-area course, it must focus on *at least two* geographic areas of the African Diaspora. Those geographic areas include Africa, the Americas, the Caribbean, Europe, and Asia. AAS 211, "Dynamics of the Black Diaspora," satisfies this cross-area requirement. If you choose to take a second area course, it must focus exclusively on **one** geographic area of the African Diaspora not covered in your first area course.

#### 2. Eight courses at the 300 or 400 level (24 credits total):

- **Six Area Courses (focusing on *one* geographic area of the African Diaspora).** All six of these courses must focus on the same geographic area: Africa, the Americas, or the Caribbean. The area that you choose as your focal point is your *sub-major area*. Among these six courses, you may include some cross-area courses if they include substantial coverage of your sub-major area.
- **One Cross-Area Course.** This course must examine diasporic issues across *at least two* geographic areas of the African Diaspora. Those geographic areas include Africa, the Americas, the Caribbean, Europe, and Asia.
- **One Second Area Course.** This course must focus exclusively on *one* geographic area of the African Diaspora that is not your sub-major area.

3. **One Senior Seminar: AAS 495 (4 credits).** This writing-intensive course offers a capstone experience for seniors. Students writing a DAAS Honors thesis must enroll in *AAS 495-Honors*, an advanced section of the course.

### Suggested Specializations

In selecting courses for your sub-major, we recommend that you:

1. **Cluster your 300- and 400-level courses around a particular specialization** Many AAS courses relate to one or more of the following specializations:
  - Health and Education
  - Expressive Cultures: Literature, Media, Arts, Religion, Languages
  - Gender and Sexuality
  - Globalization, Transnationalism, and Citizenship
  - Development, Politics, Law, and Environmental Studies
  - Urban Studies and Social Inequality

For more information about specific courses that satisfy these specializations, please

visit: <https://lsa.umich.edu/daas/undergraduates/daas-course-offerings.html>

2. **Include courses that represent different disciplines.** For instance:
  - If you are especially interested in African anthropology, you would benefit from taking a course in African sociology or African literature.
  - If you are especially interested in African American film and visual art, you would benefit from taking a course in African American psychology, history, or communication studies.

- If you are especially interested in Caribbean or Latin American Studies, you would benefit from taking courses offered by the Department of Romance Languages or the Center for Latin American and Caribbean Studies. (In order to receive credit for courses offered by other programs or departments, you must seek permission from your DAAS advisor.)

For more information, please contact: [daasadvising@umich.edu](mailto:daasadvising@umich.edu)

### Honors

Students wishing to pursue DAAS Honors must have a 3.4 overall GPA and a 3.5 GPA in AAS courses. In addition to requirements set for the major, students seeking Honors need to:

- Contact the DAAS Honors Coordinator to apply for the program by the first term of their junior year, and no later than the end of the second term of their junior year. As part of the application process students also select a Faculty Thesis Advisor, who should be a member of the DAAS faculty.
- Take a special section of the Senior Seminar, AAS 495: Advanced research in Afroamerican & African Studies, in the Fall term of their senior year. The student's work in the Senior Seminar will focus on drafting a portion (approximately 25 pages) of the Honors thesis.
- Take AAS 410: Supervised Reading and Research, in the Winter term of their senior year, when they will expand, revise, and complete the thesis. The student's faculty advisor will normally oversee this independent study. The finished Honors thesis should be 40 to 60 pages.
- Submit their final thesis to the DAAS office by the end of March. All theses must have the final approval of the faculty advisor. All theses are also read by at least one and in many cases two additional members of the faculty who will offer feedback and assess the quality of the thesis. If the thesis meets the criteria of excellence for receiving Honors, it will be assigned one of the following rankings: "Honors," "High Honors," or "Highest Honors." The final determination of Honors ranking is made by the Honors Program Coordinator in consultation with the Director of Undergraduate Studies.

Seniors earning Honors are invited along with their guests and advisors to the DAAS Graduation Ceremony, at which the students present brief summaries of their theses and receive a special certificate of achievement.

## Afroamerican and African Studies (Minor)

Effective Fall 2013

DAAS is an ideal unit for the student interested in a minor in one of the fields concerned with the study of Africa and its Diaspora. Students can use a DAAS minor to supplement and make more coherent their understanding of the knowledge in a traditional discipline. For instance, students concentrating in U.S. history could enhance and deepen their course work by taking a systematic course of study in AAS focusing not only on the many cross-listed courses between AAS and History but also on other non-cross-listed courses that the student might otherwise overlook if not affiliated with DAAS. A course in African politics after

colonialism, for example, would work well for such a History concentrator.

Because of the plethora of disciplines, interdisciplinary faculty, and geographic connections designed into the AAS curriculum, a DAAS minor can become a valuable intellectual resource for majors in any field where DAAS has faculty strengths, including history, literature in English, anthropology, political science, sociology, education, psychology, art, and communications. Students in other disciplines, such as languages, could also find an asset in the range of AAS courses. A student of French language and literature would benefit from being able to take a series of courses related to Francophone Africa and the West Indies. Students in fairly regulated majors (such as chemistry) who have an interest in African history and culture would be able to pursue such an interest without jeopardizing the major.

### Exclusions:

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

### Advising

Students wishing to pursue a minor in Afroamerican and African Studies must develop a specific plan for its completion in consultation with the department's designated advisor. Appointments are scheduled at the DAAS Advising Office.

The DAAS Advising Center (5511 Haven Hall) is staffed with faculty and staff eager to provide academic advising on the DAAS curriculum for any student interested in these fields of study, whether pursuing a major, a minor, or one course. Call (734) 764-5513 or drop by during the posted hours. The DAAS Advising Center also sponsors final exam study breaks, informational meetings on graduate study, and other such events.

For further information, please contact: [daasadvising@umich.edu](mailto:daasadvising@umich.edu)

### Prerequisites

None.

### Requirements

#### Minimum Credits: 17

1. *AAS 111.*
2. *One course at the 200 level (3 credits).* The following courses best satisfy this requirement: AAS 200, 201, 202
3. *Two courses at the 300 or 400 level (6 credits).* These courses must focus on two of three major geographic areas of the African Diaspora (Africa, the Americas, or the Caribbean) or they may be cross-area courses that focus on at least two geographic areas of the African diaspora.
4. *One senior seminar: AAS 495 (4 credits).*

# American Culture

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

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

## American Culture (Major)

*Effective Winter 2014*

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

### Prerequisites

None.

### Requirements

#### Minimum Credits: 28

1. **Core course:** AMCULT 275: American Culture at Work.
2. **Capstone:** AMCULT 498: Capstone Seminar in American Culture.
3. **Breadth Requirements:** Students must also have classes focused on the following Breadth Requirements at the 200-level or higher. Depending on content, one course might satisfy two or more of these requirements.
  - Pre-Twentieth-Century United States
  - Transnationalism, Diaspora, and/or Empire
  - Women, Gender, and/or Sexuality
  - Ethnic and/or Indigenous Studies
4. **Electives:** Students must elect additional courses at the 200 level or higher under American Culture (AMCULT) and/or any of American Culture's Ethnic Studies SUBJECT Codes (LATINOAM, ASIANPAM, NATIVEAM, ARABAM) to reach the 28 minimum credits required for the major. (Includes Breadth Requirement courses).

### Constraints

No more than 9 credits at the 200 level (not including AMCULT 275) can be counted toward the major.

### Honors

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

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

Honors requirements spans three terms.

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

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

## American Culture (Minor)

*Effective Winter 2013*

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

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

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

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

#### Exclusions:

*Not open to students with a major in American Culture.*

#### Advising

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

#### Prerequisites

None.

#### Requirements

##### Minimum Credits: 15

1. One AMCULT course (3 credit) at 200-level, or higher (AMCULT 222 and 223 are excluded).
2. AMCULT 350: Approaches to American Culture (3 credits).
3. Three additional courses (9 credits total) at 300-level or higher. In consultation with the American Culture department advisor, students will plot their own path toward the minor through these additional courses.

## ***Arab and Muslim American Studies (Minor)***

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

Courses in Arab American Studies provide an interdisciplinary study of Arab American histories, literatures, and cultures. We address the historical and current experiences of Arab Americans in the United States and the relevance of those experiences for understanding race and ethnicity in the U.S. and globally. Courses explore themes such as immigration history; racism and discrimination; gender and sexuality; media representations; the local and global impacts of war and

violence on Arabs and Arab Americans; intellectual, artistic, and cultural contributions; and relationships with other racial and ethnic groups. This curriculum provides knowledge vital for a critical understanding of the contemporary United States in a global context. The Program in American Cultures offers the following courses in Arab American Studies: "Why do they Hate Us?: Perspectives on 9/11", Arab American Literature", Introduction to Arab American Studies, Muslim Americans, Arab Women: Homelands and Diasporas, Immigrant and Racial Politics after September 11th, Representing the Middle East in Hollywood Cinema. Courses may also be offered in other departments or cross listed in American Culture. Faculty members teaching in this area include Nadine Naber and Evelyn Alsaltany.

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

The minor in Arab and Muslim American Studies offers students:

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

*Effective Fall 2016*

#### Advising

The designated Director of Arab American Studies will be responsible for advising most students with the assistance of the American Culture Undergraduate Program Coordinator and Ethnic Studies Associate. Both the Associate Chair and the Chair will provide back-up advising.

Students interested in pursuing a course of study in the field should contact American Culture's designated advisor. Appointments are schedule online at <http://lsa.umich.edu/ac/undergraduates/advising.html>

#### Prerequisites

None.

#### Requirements

**Minimum Credits: 15**

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

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

- ANTHRCUL 409: Peoples and Cultures of the Near East and North Africa
- ASIAN 324 / HISTORY 325 / NEAREAST 375 / MEMS 325 / RELIGION 325: The History of Islam in South Asia
- ENGLISH 280: Introduction to Digital Cultures, section titled "Writing Islam"
- ENGLISH 317: Literature and Culture, section titled "Arab American Literature"
- HISTART 285 / NEAREAST 285: Visual Culture Islam
- HISTORY 241: America and Middle Eastern Wars
- HISTORY 243 / MENAS 243: Islamic World History
- HISTORY 324: Muslims in Contemporary Europe
- HISTORY 325 / NEAREAST 375 / ASIAN 324 / MEMS 325 / RELIGION 325: The History of Islam in South Asia
- HISTORY 443 / NEAREAST 487: Modern Middle East History
- HISTORY 449: Topics in Middle Eastern History
- MEMS 325 / HISTORY 325 / NEAREAST 375 / ASIAN 324 / RELIGION 325: The History of Islam in South Asia

- MENAS 243 / HISTORY 243: Islamic World History
- MENAS 493 / NEAREAST 483: Comparative Perspectives of the Middle East and North Africa
- NEAREAST 100: Peoples of the Middle East
- NEAREAST 285 / HISTART 285: Visual Culture Islam
- NEAREAST 322 / RELIGION 363: The Qur'an and Its Interpretations
- NEAREAST 323: The Prophet Muhammad in Islam
- NEAREAST 325: Introduction to Arab Literature in Translation
- NEAREAST 326: The Arab-Israeli Conflict in Middle Eastern Literature
- NEAREAST 375 / HISTORY 325 / ASIAN 324 / MEMS 325 / RELIGION 325: The History of Islam in South Asia
- NEAREAST 429: Topics in Modern Arabic Literature in Translation
- NEAREAST 487 / HISTORY 443: Modern Middle East History
- NEAREAST 483 / MENAS 493: Comparative Perspectives of the Middle East and North Africa
- REEES 490 / SOC 490 / WOMENSTD 492: Women and Islam: A Sociological Perspective
- RELIGION 325 / HISTORY 325 / NEAREAST 375 / ASIAN 324 / MEMS 325: The History of Islam in South Asia
- RELIGION 363 / NEAREAST 322: The Qur'an and Its Interpretations
- SOC 218 / UC 218: Foundations of Intergroup Relations
- SOC 490 / REEES 490 / WOMENSTD 492: Women and Islam: A Sociological Perspective
- UC 218 / SOC 218: Foundations of Intergroup Relations
- WOMENSTD 492 / SOC 490 / REEES 490: Women and Islam: A Sociological Perspective
- Another course with significant Arab or Muslim content from another department, contingent on approval from an Arab and Muslim American Studies minor advisor.

**Constraints**

At least one course must be at the 300- or 400-level, and at least three courses must be taken in American Culture (AMCULT) or Arab American Studies (ARABAM).

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

## ***Asian/Pacific Islander American Studies (Minor)***

**Asian/Pacific Islander American Studies Minor**

The Asian/Pacific Islander American Studies (A/PIA) program within American Culture offers interdisciplinary graduate and undergraduate

courses focusing on Asian American and Pacific Islander communities and experiences.

A/PIA is a focal point for university research and teaching on issues concerning Asian American and Pacific Islanders, providing resources for their understanding. The unique historical and political circumstances surrounding the incorporation of Asian immigrants and Pacific Islanders into American society, and the broad range of stratification spanning such communities, underscores the richness and theoretical importance of studying A/PIA communities alongside – and often in contrast to – that of other groups in the United States.

Students may take a full range of courses examining the historical, political, economic, literary, artistic, cultural, and psychological forces, which have shaped and continue to shape the lives and communities of Asian Americans and Pacific Islanders.

The minor in Asian/Pacific Islander American Studies is intended for students who wish to develop a coherent understanding of the contributions of the Asian/Pacific Islander American presence in American life, history, and thought.

Students interested in pursuing a course of study in A/PIA should contact Scott Kurashige, Director of Asian/Pacific Islander American Studies.

*Effective Fall 2012*

#### Exclusions:

*A minor in Asian/Pacific Islander American Studies is not open to students with any minor in the Department of American Culture.*

#### Advising

Appointments with the respective advisor can be scheduled online at: <http://lsa.umich.edu/ac/undergraduates/advising.html>

#### Prerequisites

None.

#### Requirements

##### Minimum Credits: 15

1. **Core Course: ASIANPAM 214 / AMCULT 214:** Introduction to Asian/Pacific American Studies
2. **Electives:** Four courses (minimum of 12 credits). These courses may be taken from within, or from across, any of the three areas of specialty listed below that are regularly offered in A/PIA, as well as other 200- and 300-level courses occasionally offered in A/PIA. One of these four courses may be a 100-level course (e.g., Freshman Seminar on an A/PIA topic), while 200 and 300 level courses with A/PIA content offered in other departments can count if approved by the A/PIA Director:

##### 1. *Historical Experience:*

- ASIANPAM 314 / AMCULT 314 / HISTORY 378: History of Asian Americans in the U.S.
- ASIANPAM 317 / AMCULT 317: History of the Pacific Islands.
- appropriate sections of AMCULT 310: Topics in Ethnic Studies or AMCULT 496: Social Science Approaches to American Culture, chosen in consultation with, and approved by, the advisor.

##### 2. *Cultural Expression:*

- ASIANPAM 324 / AMCULT 324 / ENGLISH 381: Asian American Literature.
- ASIANPAM 325 / AMCULT 325 / ENGLISH 388: Pacific Literacy and Cultural Studies.
- appropriate sections of AMCULT 311: Topics in Ethnic Studies or AMCULT 498: Capstone Seminar in American Culture, chosen in consultation with, and approved by, the advisor.

##### 3. *Contemporary Communities:*

- ASIANPAM 305 / AMCULT 305: Asian Pacific American Community Service and Learning
- ASIANPAM 346 / AMCULT 346: Asian American Communities and Social Issues
- ASIANPAM 347 / AMCULT 347: Pacific Islander American Communities
- appropriate sections of AMCULT 301: Topics in American Culture or 310: Topics in Ethnic Studies, chosen in consultation with, and approved by, the advisor.

## Digital Studies (Minor)

### Digital Studies Minor

**Digital Studies** encompasses new and diverse practices and methodologies immediately relevant to contemporary concerns. The field includes scholars who create digital archives, analyze on-line materials, and / or disseminate text, image, and video using new platforms and computational tools. Other academics study the everyday practice of digital culture in specific cultural contexts. Rapid technological transformations are altering our expectations for engaged citizenship and civic practices as well as scholarly research and publishing.

The Digital Studies minor is aimed at students with academic interests in the role that digital media play in U.S. culture, history, and media, and provides students with the methods and tools for studying, analyzing, and writing about their everyday engagements with electronic forms of community and culture in the U.S. The courses offer both humanistic and social scientific approaches to the study of all things digital.

Students can use the Digital Studies minor to supplement and make more coherent their understanding of the knowledge formed in a traditional discipline. As digital media use becomes ubiquitous and an increasingly important driver of the U.S. economy, as well as a cultural force in its own right, students in History, Women's Studies, English, African-American and other Ethnic Studies, Political Science, Communication Studies, Sociology, and Screen Arts & Cultures find themselves attracted to the topic as a way to engage with their main areas of study. For instance, students with interests in digital media, history, and culture who wish to focus on topics not consistently covered in a traditional humanities or social science discipline can enhance and deepen their work in another major by taking a systematic supplement of courses in Digital Studies. An appropriate student for the Digital Studies minor may be putting together an ensemble of courses focusing on, for example, digital economies and



intellectual property debates; digital labor, race, gender and identity in online spaces; algorithmic cultures and computing history; digital games studies; online communities; shifting distribution channels.

Students wishing to pursue a minor in Digital Studies must develop a specific plan for its completion in consultation with one of the department's designated advisors.

*Effective Winter 2015*

### Advising

Students wishing to pursue a minor in Digital Studies must develop a specific plan for its completion in consultation with one of the department's designated advisors.

Appointments with the respective advisor can be scheduled online at: [www.lsa.umich.edu/ac/undergraduate/advising](http://www.lsa.umich.edu/ac/undergraduate/advising)

### Prerequisites

None.

### Requirements

#### Minimum Credits: 16

1. **Core Course:** AMCULT 202: Digital Culture
2. **Electives:** Four additional courses, three of which must be at the 300-level or above:
  - AMCULT 301: Topics in American Culture, *section titled "Politics of Code"*
  - AMCULT 334 / SAC 334 / COMM 334: Race, U.S. Culture, and Digital Games
  - AMCULT 358: Topics in Digital Studies
  - AMCULT 498: Capstone Seminar in American Culture, *section titled "Race on the Internet"*
  - ARTDES 200: Introductory Studios, *section titled "Programming for Poets"*
  - ARTDES 372: Video Games
  - ASIAN 282 / SAC 282 / RCHUMS 283: Asia Goes Viral: Asian Pop Culture in the Age of Social Media
  - COMM 271: Communication Revolutions
  - COMM 315: Critical Approaches to the Internet
  - COMM 334 / AMCULT 334 / SAC 334: Race, U.S. Culture, and Digital Games
  - COMM 350: The Rise of Mass Culture
  - COMM 362: Digital Media Foundations
  - COMM 365: Visual Culture and Visual Literacy
  - COMM 418: Designing Web Research
  - COMM 423: Computer Mediated Communication
  - COMM 424: Race, Gender and New Media
  - COMM 425: Internet, Society and the Law
  - COMM 461: Visuality and New Media
  - EDUC 222: Video Games and Learning
  - ENGLISH 280: Introduction to Digital Cultures

- ENGLISH 403: Topics in Language and Rhetorical Studies, *section titled "Digital Rhetorics"*
- ENGLISH 420: Technology and the Humanities
- HISTORY 379 / RCSSCI 379 / SI 379: History of Computers and the Internet
- RCHUMS 283 / SAC 282 / ASIAN 282: Asia Goes Viral: Asian Pop Culture in the Age of Social Media
- RCSSCI 379 / HISTORY 379 / SI 379: History of Computers and the Internet
- SAC 282 / RCHUMS 283 / ASIAN 282: Asia Goes Viral: Asian Pop Culture in the Age of Social Media
- SAC 334 / AMCULT 334 / COMM 334: Race, U.S. Culture, and Digital Games
- SAC 367: Introduction to Digital Media Studies
- SAC 368: Topics in Digital Media Studies, *section titled "Video Games as Culture / Form" and "Virtuality and Digital Identity"*
- SAC 376: New Media Theory
- SI 379 / RCSSCI 379 / HISTORY 379: History of Computers and the Internet
- SI 410: Ethics and Information Technology
- SI 429: eCommunities: Analysis and Design of Online Interaction
- WRITING 200: New Media Writing
- WRITING 201: New Media Writing Mini-Course

Other courses as approved by the department advisor.

## Latina/Latino Studies (Major)

A component of the Program in American Culture, Latina/o Studies is designed to give students an opportunity to develop cultural competence on the diverse groups that comprise the U.S. Latina/o populations, that is, Mexican-Americans or Chicano/as, Puerto Ricans, Cuban-Americans, Central Americans, and other peoples of Spanish, Indian and African descent. Soon to become the largest minority group in this country, Latinas/os have not only made contributions to U.S. society with their work, values, cultural traditions and linguistic heritage, they have also participated in the making of this country's history. The Latina/o Studies Program offers a variety of courses, some focusing on particular national groups, others based on a particular discipline, and many others organized around specific comparative topics or issues. Examples of courses in Latina/o Studies include: "History of U.S. Latinos," "Latinas in the United States," "American Immigration," "The Politics of Language and Cultural Identity," "Schooling and Community," "Latino Performance Arts," "Latinos in the Media," "Empowering Latino Families and Communities," "Migrant Bodies," "Hybrid Texts," "Puerto Rican Literatures: The Island and the Mainland," "Cuba and Its Diaspora," and others.

*Effective Winter 2014*

### Advising

Students can set up advising appointments for any of the program's major or minor plans by visiting [www.lsa.umich.edu/ac/undergraduate/advising](http://www.lsa.umich.edu/ac/undergraduate/advising).

### Prerequisites

AMCULT 213 / LATINOAM: 213: Introduction to Latino Studies.

### Requirements

#### Minimum Credits: 27

An interdisciplinary degree, the Latina/o Studies major consists of 27 credits beyond the introductory prerequisite. The objective of this major program is to engage students in a diversity of disciplinary approaches to the study of U.S. Latinas/os as well as to introduce them to the central intellectual questions and topics that have emerged in this field of inquiry. Given the interdisciplinary nature of Latino Studies, students interested in pursuing graduate study in a particular discipline should double concentrate in the respective department in order to have the needed background to enter graduate school. The major consists of:

1. **Latino Studies Major Second Language Proficiency Requirement:** Given the importance of second language proficiency to the study of Latina/o populations in the United States, the Latina/o Studies Program requires all majors to satisfy their 4th term proficiency in Spanish, or another relevant language approved by the program advisor.

2. Students will be required to take **one** 3 credit course, focusing on Latinos in the U.S., in each of the following areas (**Note:** the courses listed below the distribution areas are courses that are regularly offered through Latina/o Studies. Students, however, can use courses not listed here to satisfy distribution area requirements, pending approval from the program advisor).

#### ○ History and Society

- AMCULT 205 / LATINOAM 205: Latina/o Religions & Cultures
- AMCULT 315 / LATINOAM 315: History of U.S. Latinos
- AMCULT 301. Topics in Chicana/o History
- AMCULT 226 / LATINOAM 226: The Latin Tinge: Latin Music in Social Context in Latin America and the United States
- AMCULT 304. American Immigration
- AMCULT 313 / LATINOAM 313: Cuba and its Diaspora

#### ○ Gender and Sexuality

- AMCULT 243 / LATINOAM 243: Latinas in the United States
- AMCULT 293. Women of Color

#### ○ Language & the Arts

- AMCULT 327 / LATINOAM 327: Latino/Latina Literature in the United States

#### ○ Media & Popular Culture

- AMCULT 381 / LATINOAM 381: Latinas/os and the Media

- AMCULT 226 / LATINOAM 226: The Latin Tinge: Latin Music in Social Context in Latin America and the United States
- AMCULT 380 / LATINOAM 380: Studies in Transnational Media
- AMCULT 420 / LATINOAM 420: Latin American and Latino/a Film Studies

#### ○ Community Service Learning:

Community-service learning courses must be in a Latino context. Courses may be chosen from among the following:

- AMCULT 309
- AMCULT 388
- AMCULT 219
- AMCULT 425
- SPANISH 428
- RCCORE 309.006
- SOC 225 (or 389)
- PSYCH 401
- WOMENSTD 425

3. **Electives.** Two 300- 400-level courses in Latina/o Studies.

4. **Cognates.** Two courses outside the Latina/o Studies Curriculum including advisor-approved courses offered by other departments, one each from the following areas:

1. Latin American culture, history, literature (may include courses in Latin American and Caribbean Studies, Romance Languages and Literatures, Anthropology, History, Sociology, Political Science);
2. Asian Pacific Islander American Studies; African American Studies (may include courses offered through DAAS); Native American Studies; or Arab American Studies.

### Honors

The American Culture Honors Program provides an opportunity for majors in American Culture and Latina/o Studies to complete a comprehensive, original independent project under the guidance of a faculty member as the culmination of their undergraduate studies. We recommend that students choose topics on which they have already done some academic study. The Honors thesis may take a variety of forms, for example, a research project, a critical or interpretive project, or a creative or performance piece. Creative and community-based projects should include a substantive introductory essay that sets forth the premises, aims, and cultural/intellectual contexts of the student's undertaking. Honors requirements consist of regular American Culture or Latina/o Studies requirements plus the Honors requirements.

American Culture and Latina/o Studies majors with an overall grade-point average of 3.5 or higher may apply for an Honors major. The Program spans three terms. Students usually apply in the fall term of their junior year. Though the program occasionally accepts a few late applicants in the Winter or Spring/Summer terms, students' chances of success are greatest if they apply in the fall of the Junior Year and if they have begun thinking about a possible focus.

The application process has three stages:

1. In the first semester of his or her junior year, the student must consult with the American Culture department advisor to gain permission to enroll in AMCULT 398, the Junior Honors Writing Workshop (three credits).
2. In the second semester of the junior year, the student must successfully complete AMCULT 398, which involves preparing a thesis prospectus and bibliography and identifying a supervising faculty advisor and a second reader.
3. At the end of the second semester of the junior year, the student will submit the prospectus and a letter of agreement from the faculty advisor. The student will then meet with the director of the Program in American Culture to discuss the prospectus and be accepted into the Honors major.

The application consists of a cover sheet, transcript, and prospectus.

In both semesters of the senior year, the student will enroll in AMCULT 493 (3 credits per semester) to research and write the thesis.

In addition, effective in Fall 2010, as part of AMCULT 493, students in the Honors program will participate in three Friday colloquia. The colloquia are also open to Latina/o Studies majors pursuing Honors. The colloquia will focus on peer response to work in progress, as well as on topics of particular usefulness to a given cohort of students. The series will be facilitated by the Director of Undergraduate Studies and is intended to provide seniors with ongoing mentoring.

Early selection of an appropriate thesis advisor is crucial to the success of the Honors thesis. Only tenure track faculty members in the Program in American Culture and the Ethnic Studies Programs may serve as Honors thesis advisors. Exceptions to this policy may be made in consultation with the Director of Undergraduate Studies. Faculty are listed on the Program's web site.

The second reader is a faculty member chosen jointly by the student and the thesis advisor by the end of the fall semester of the senior year. The second reader need not be affiliated with the Program, but her or his area of expertise should be relevant to the thesis topic. The student should consult with the second reader throughout the writing process, and the second reader should comment on thesis drafts as well as contribute to the final evaluation of the thesis.

#### Submission of Thesis

Students should submit one copy to their primary faculty advisor, one copy to the second reader, and one copy to the Undergraduate Program Assistant in the Program Office. The copy submitted to the office should include a cover sheet (providing the student's name, email, and telephone number; thesis title; and the names of the primary advisor and second reader). The primary advisor and the second reader determine the designation of Honors (Honors, High Honors, Highest Honors).

Graduating seniors should also complete an Honors Plan Release with the AC academic advisor, an application for graduation online, and a distribution worksheet with an Honors advisor.

## Latina/o Studies (Minor)

The minor in Latina/o Studies is intended for students who wish to develop a coherent understanding of the contributions of the Latina/o presence in American culture, history, and society. The minor supplements majors in traditional humanities and social science disciplines by providing content knowledge of Latina/o communities. The minor will also benefit students pursuing degrees in the

professional world in areas such as public health, social work, business, and pre-law thus better preparing them for work in their chosen field.

*Effective Fall 2013*

#### Exclusions:

*A minor in Latina/o American Studies is not open to students with a Latina/o Studies major or any minor in the Department of American Culture.*

#### Advising

Students can set up advising appointments for any of the program's major or minor plans by visiting [www.lsa.umich.edu/ac/undergraduate/advising](http://www.lsa.umich.edu/ac/undergraduate/advising).

#### Prerequisites

LATINOAM 213 / AMCULT 213: Introduction to Latina/o Studies. (must be taken for a letter grade).

#### Requirements

##### Minimum Credits: 15

At least 15 credits (must be taken for letter grade), chosen from the following categories as stated:

1. **Latina/o Studies Core.** At least two courses chosen from any of the following:
  - LATINOAM 315 / AMCULT 315 / HISTORY 377: History of Latinos in the United States.
  - LATINOAM 327 / AMCULT 327 / ENGLISH 387 / SPANISH 327: Latino/Latina Literature of the United States
  - LATINOAM 381 / AMCULT 381 / SAC 381: Latinas/Latinos and the Media
  - LATINOAM 243 / AMCULT 243 / WOMENSTD 243: Introduction to Study of Latinas in the United States
2. **Latina/o Studies Electives:** Three courses (minimum of 9 credits), at least one of which must be at the 400 level. Only one course below the 300-level (including a first-year seminar on Latina/o Studies topic) may be used to satisfy this requirement.

Courses that a student did not use in Requirement 1 can be used to satisfy the elective requirement.

Students may elect a comparative ethnic studies course that includes a Latina/o component.

## Native American Studies (Minor)

The Native American Studies Program offers undergraduate and graduate courses in the field with an emphasis on Native American literature. Its curriculum includes an undergraduate minor and graduate courses organized around multiple disciplines in the humanities and social sciences.

The minor in Native American Studies permits students to explore the North American Indian experience in an interdisciplinary manner. The goal of the minor is to assist students in coherently planning a curriculum that will enable them to grapple intelligently and in an informed manner with the history, experience, and contributions of

Native Americans in the United States and Canada. Courses in language, literature, the social sciences, and the humanities form the main areas of study, but students may occasionally have an opportunity to explore Native American arts, historic and contemporary.

Students interested in pursuing a minor in NAS should contact the Director of Native American Studies.

*Effective Winter 2014*

#### Exclusions:

*A minor in Native American Studies is not open to students with any minor in the Department of American Culture.*

#### Advising

Students can set up advising appointments for any of the program's major or minor plans by visiting [www.lsa.umich.edu/ac/undergraduate/advising](http://www.lsa.umich.edu/ac/undergraduate/advising).

#### Prerequisites

None.

#### Requirements

##### Minimum Credits: 15

At least 5 courses totaling 15 credits, at the 200-level or above. At least two courses (6 credits) must be elected at the 300-level or above.

1. **General Surveys:** One course chosen from:
  - AMCULT 216: Introduction to Native American Studies – Social Science
  - NATIVEAM 217 / AMCULT 217: Introduction to Native American Studies – Humanities
  - NATIVEAM 316 / AMCULT 316 / ANTHRCUL 315: Native American Peoples of North America
  - NATIVEAM 367 / AMCULT 367 / HISTORY 367: American Indian History
2. **Electives:** Additional credits in Native American Studies to bring minor total to 15 [Courses from Requirement 1 may not be used to meet Requirement 2]. Electives may be chosen from the following list:
  - AMCULT 262 / RELIGION 262: Introductory Study of Native Religious Traditions
  - AMCULT 301: Topics in American Culture, *section subtitled "Native American Feminism"*
  - AMCULT 310: Topics in Ethnic Studies, *section subtitled "Blacks, Indians, and the Making of America"*
  - AMCULT 428: Native American Literature
  - AMCULT 496: Social Science Approaches to American Culture, *section subtitled "Native American Mental Health"*
  - AMCULT 498: Capstone Seminar in American Culture, *sections subtitled "Native American Autobiography," "African American and Native American Women Writers"*

- NATIVEAM 322 / AMCULT 322: Intermediate Ojibwe
- NATIVEAM 323 / AMCULT 323: Intermediate Ojibwe
- NATIVEAM 328 / AMCULT 328 / ENGLISH 382: Native American Literature
- NATIVEAM 422 / AMCULT 422: Advanced Ojibwe
- NATIVEAM 423 / AMCULT 423: Advanced Ojibwe
- NATIVEAM 461 / AMCULT 461 / ANTHRCUL 461 / LING 461: Language, Culture, and Society in Native North America
- ENGLISH 407: Topics in English Language and Literature, *section subtitled "Contemporary Native American Women Writers"*
- RELIGION 262 / AMCULT 262: Introductory Study of Native Religious Traditions

Other courses, such as courses in other departments and special topics courses not listed above, may be taken with the approval of the Director of Native American Studies. These may include

- "Histories of Native American Women,"
- "19th-Century Native American Literature,"
- "Contemporary Native American Literature,"
- "Contemporary Literature by Native Americans."

# Anthropology

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

## Anthropology Minors

Our majors gain anthropological understanding of the human condition through exposure to Sociocultural Anthropology, Biological Anthropology, Anthropological Archaeology, and Linguistic Anthropology and their many interrelationships. Many students, however, take our courses to supplement other majors or out of general interest and have less need for four-field training. Academic minors in anthropology may benefit these students, providing structure to their course elections, and allowing thoughtful integration of anthropology into their academic plans. The department offers three minors: [Anthropology](#), Biological Anthropology, and [Medical Anthropology](#).

## Anthropology (Major)

*Effective Fall 2016*

An undergraduate major in Anthropology contributes to a liberal arts education, offering a disciplined awareness of human behavior and social institutions in different times and places.

### Advising

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

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

[Department advisors](#) are available to explain program objectives and requirements and to help with the planning of your program.

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

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

### Prerequisites

None, but ANTHRCUL 101 is recommended.

### Requirements

**Minimum Credits: 34**

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

Choose at least one course in each of the following subfields

#### 1. Anthropological Archaeology:

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

#### 2. Biological Anthropology:

- ANTHRBIO 201: Introduction to Biological Anthropology (4)

#### 3. Linguistic Anthropology:

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

#### 4. Sociocultural Anthropology:

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

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

### Constraints

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

### Residency

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

### Honors

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

### Teaching Certificate

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

## Anthropology (Minor)

*Effective Winter 2008*

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

**Exclusions:**

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

**Advising**

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

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

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

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

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

**Prerequisites**

None.

**Requirements****Minimum Credits:** 16

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

**1. Sociocultural Anthropology**

1. One general introduction to anthropology: ANTHRCUL 101 or 222.
2. One upper-level course in anthropological theory from those designated Sociocultural Anthropology-Theory/Method.
3. Three anthropology courses, chosen in consultation with the advisor. At least one must be at the 400-level, one must be a regional course.

**2. Linguistic Anthropology**

1. One general introduction to anthropology; ANTHRCUL 101 is recommended.
2. ANTHRCUL 272.
3. At least three upper-level courses from those listed under Linguistic Anthropology.

3.

1. ANTHRARC 282.
2. ANTHRARC 385 or 386.
3. Three additional regularly offered courses in anthropological archaeology, two of which must be 300-level or above, chosen from ANTHRARC 258, 285, 283, 284, 381, 382, 383, 385, 386, 392, 394, 407, 442, 482, 484, 490, or 495.
4. Other less regularly taught courses in anthropological archaeology may also be used. Consult the department advisor for more information. Field courses (ANTHRARC 400 or 487) and Independent Reading and Research (ANTHRARC 499) may not be used toward the minor.

## ***Biological Anthropology (Minor)***

**Biological Anthropology Minor**

The minor in Biological Anthropology allows students with interests in evolutionary biology or medicine to add an anthropological perspective to their studies. Many students are interested in specific topics covered by Biological Anthropology, such as Human Evolution, the Evolution of Human Behavior, Primatology, Nutrition and Adaptation, Human Genetics, *etc.* Thus, a minor in biological anthropology offers several "tracks" to students depending on their interests.

*Effective Fall 2014***Exclusions:**

*An academic minor in Biological Anthropology is not open to students with any major or any other minor in the department of Anthropology.*

**Advising**

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

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

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

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

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

**Prerequisites**

None.

**Requirements****Minimum Credits:** 16

At least five courses (no fewer than 16 credits), to be chosen from the following categories as stated:

1. ANTHRIBIO 201.
2. At least four upper-level courses in ANTHRIBIO, chosen in consultation with an advisor, one of which must be at the 400-level or above.

## Evolutionary Anthropology (Major)

Evolutionary Anthropology is a joint major, with courses from the Department of Anthropology; the Departments of Earth and Environmental Sciences; Ecology and Evolutionary Biology; Molecular, Cellular and Developmental Biology; and Psychology; and the School of Natural Resources and the Environment. It combines anthropological and biological perspectives in the study of humans and related species. It is particularly appropriate for students planning to continue in the health sciences and for students interested in "whole organism" biology and ecology. Thus, many Evolutionary Anthropology majors are training for medical school, while others are planning to pursue careers in natural resource management, conservation, animal behavior, and other fields. Because evolutionary biology forms its primary theoretical basis, the major does not require courses in other sub-disciplines of anthropology. Students who are interested in biological anthropology and seek broader training in anthropological archaeology, linguistic anthropology, and sociocultural anthropology may pursue a degree as an Anthropology major. Students should contact the undergraduate advisor in the Department of Anthropology for further information.

Effective Fall 2014

### Advising

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

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

[Department advisors](#) are available to explain program objectives and requirements and to help with the planning of your program.

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

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

### Prerequisites

- ANTHR BIO 201
- BIOLOGY 171, 172, 173; or BIOLOGY 195 and 173

### Requirements

#### Minimum Credits: 32

At least 32 credits at the 200-level and above, distributed as follows:

1. **Anthropology.** A minimum of five courses, with at least one course from each of the four groups below. Two courses must be at the 400-level or above. Courses listed in more than one group below cannot be counted twice:
  1. **Paleoanthropology and morphology:** ANTHR BIO 351, 360, 365, 366, 465, 466, 474, 475, 476, 477, 479, ANTHR BIO 471- sections titled "Miocene Hominoid Paleobiology" or "Paleoecology and Paleodietary Reconstructions"
  2. **Ecology and behavior:** ANTHR BIO 342, 361, 362, 368, 373, 461, 467, 468,

471 - section titled "Statistical Modeling & Data Visualization in R", 472, 478, ANTHR BIO 668 - section titled "Current Issues in Primate Behavior"

3. **Human adaptation:** ANTHR BIO 364, 366, 373, 462, 471, 472
4. **Evolution and genetics:** ANTHR BIO 342, 360, 361, 363, 365, 450, 452, 467, 475, 476, 479, ANTHR BIO 471 - section titled "Molecular Anthropology"  
\*Courses taken as ANTHR BIO 469: Topics in Biological Anthropology, or graduate-level topics courses can be counted in the appropriate group.
2. **Biology.** A minimum of three courses representing both of the groups below:
  1. **Molecular, Cellular, and Developmental Biology:**
    - ANAT 403, 541
    - BIOLCHEM 415
    - BIOLOGY 205, 207, 222, 225, 305
    - CHEM 351
    - EEB 341, 490
    - MCDB 308, 310, 352, 404, 405, 408, 417, 418, 422, 427, 462
    - PHYSIOL 201, 502, 541
    - PSYCH 438, 532
  2. **Ecology, Evolution, and Behavior:**
    - BIOLOGY 252, 256, 281, 288
    - CMLXSYS 430
    - EARTH 418/419, 437, 438
    - EEB 315, 381, 390, 404, 412, 424, 430, 451, 470, 472, 476, 492
    - ENVIRON 281, 315, 415, 451, 476
    - NRE 415, 451, 476
    - PSYCH 335
3. Remaining credits may be selected from other biological anthropology or biology courses within the major, or from relevant courses in other departments approved by the program advisors.

### Constraints

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

### Other Department Policies

Evolutionary Anthropology majors may NOT use any ANTHR BIO courses toward the College Area Distribution requirement, but MAY use introductory Biology courses.

### Residency

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

## Honors

The [Honors Plan](#) in Evolutionary Anthropology is individually arranged with the department advisor and requires a senior thesis. Recommendations for degrees with Honors are made by the department advisor after consultation with the Honors advisor in biological anthropology.

## Medical Anthropology (Minor)

The minor in Medical Anthropology allows students to focus on the social basis of illness and healing from different cultural perspectives. The minor might be elected by students interested in client-practitioner interactions, traditional and complementary medicine, the production of medical knowledge, body politics, bioethics, and reproductive health, among other topics. It might also be relevant for those students interested in adding anthropological perspective to their preparation for a career in medicine, public health, or other health sciences.

*Effective Winter 2015*

### Exclusions:

*Not open to students electing the [Science, Technology, and Society](#) minor in the Residential College or any other minor in the Department of Anthropology.*

### Advising

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

[Department advisors](#) are available to explain program objectives and requirements and to help with the planning of your program.

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

Appointments are scheduled in the Department office or [online](#).

### Prerequisites

None, but ANTHRCUL 101 or 222 are recommended.

### Requirements

#### Minimum Credits: 16

At least five courses (no fewer than 16 credits), to be chosen from the following categories as stated:

1. **Core:** ANTHRCUL 344, Medical Anthropology
2. **Area and topical courses.** Choose four courses from the following list:
  - ANTHR BIO 342 / ANTHRCUL 342: Nature/Culture Now!
  - ANTHR BIO 363: Genes, Disease, Culture
  - ANTHR BIO 364: Nutrition & Evolution
  - ANTHR BIO 462: Human Growth and Development across the Life Cycle
  - ANTHRCUL 212/WOMENSTD 212/NURSING 225: The Global HIV/AIDS Epidemic
  - ANTHRCUL 232: Genes, Genealogies, Identities: Anthropological Perspectives

- ANTHRCUL 256: Culture, Adaptation and Environment
- ANTHRCUL 258: Honors Seminar in Anthropology. *section subtitled "Culture & Medicine"*
- ANTHRCUL 325/WOMENSTD 324: Childbirth & Culture
- ANTHRCUL 327/RCSSCI 327: Critical Theory in Medicine and Health
- ANTHRCUL 342 / ANTHR BIO 342: Nature/Culture Now!
- ANTHRCUL 352: Anthropology of the Body
- ANTHRCUL 354 / HISTART 354. Art: Science, and Technology
- ANTHRCUL 355/HISTORY 355/AAS 355: Health & Illness in African Worlds
- ANTHRCUL 408/AAS 409: Maternal/Child Health & Environmental Pollution in Africa
- ANTHRCUL 437: The Anthropology of Death, Dying, and the Afterlife
- AAS 355/HISTORY 355/ANTHRCUL 355: Health & Illness in African Worlds
- AAS 365/WOMENSTD 365: Global Perspectives on Gender, Health, & Reproduction
- AAS 409/ANTHRCUL 408: Maternal/Child Health & Environmental Pollution in Africa
- HISTART 354 / ANTHRCUL 354: Art, Science, and Technology
- HISTORY 355/AAS 355/ANTHRCUL 355: Health & Illness in African Worlds
- NURSING 225/ANTHRCUL 212/WOMENSTD 212: The Global HIV/AIDS Epidemic
- RCSSCI 327/ANTHRCUL 327: Critical Theory in Medicine and Health
- WOMENSTD 212/ANTHRCUL 212/NURSING 225: The Global HIV/AIDS Epidemic
- WOMENSTD 324/ANTHRCUL 325: Childbirth & Culture
- WOMENSTD 365/AAS 365: Global Perspectives on Gender, Health, & Reproduction

3. or a course(s) approved by the Undergraduate Advisor.

### Constraints

The minor must include at least two courses at the 300-level or above.



# Penny W. Stamps School of Art and Design

## Art and Design (Minor)

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

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

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

### How to Earn a Minor in Art & Design

#### Step One

[Attend a Stamps Minor in Art & Design information session](#): This one-hour information session, offered every Friday afternoon, is the first step in declaring a Minor in Art & Design. You'll talk with Stamps representatives, learn more about our program, and find out if the Minor in Art & Design is right for you. [Sign up now!](#)

#### Step Two

Complete two 3-credit courses, one from each category below (6 credits total):

1. Choose either **Drawing I** - observational (ARTDES 100) or **Drawing II** - ideational (ARTDES 105)
2. Choose one of our foundation "dimensional" courses: **Studio 2D** (ARTDES 115), **Studio 3D** (ARTDES 120) or **Studio 4D** (ARTDES 125).

Once you have finished *one* of these courses, you're ready to declare your minor by completing the [Minor Declaration Form](#). This form indicates that you've taken the prerequisite course, discussed the Stamps Minor with a Stamps advisor, and established a plan of study.

#### Step Three

With the help of your advisor, choose **four courses** (12 credits) as follows:

1. **Two 200-level studio courses (6 credits).**  
Options include [ARTDES 200 - 299](#), a wide variety of introductory courses focused on developing skills in specific studio areas. 200-level classes are often prerequisites for more advanced studios. 200-level studio courses offered outside the Stamps School can also count toward this requirement. These options include:  
*ARCH 211, Digital Drawing*  
*ARCH 218, Visual Studies*  
*MECHENG 250, Design & Manufacturing I*  
*PAT 201, Intro to Computer Music*  
*PAT 221, Computer Music*  
*PAT 280, Sound Reinforcement*  
*RCARTS 285, Photography*  
*RCARTS 286, Sculpture*  
*RCARTS 287, Printmaking*  
*RCARTS 289, Ceramics*  
*SAC 290, Intro to Media Production*  
*THREMUS 240, Intro to Design*  
*THREMUS 256, Lighting Design I*  
*THREMUS 260, Scene Design I*  
*THREMUS 263, Design Rendering*  
*THREMUS 270, Costume Design I*  
*UARTS 250, Creative Process*
2. **One 300-level studio course (3 credits).**  
Options include [ARTDES 300 - 397](#), a variety of more advanced, project-based courses where you can apply and refine the skills acquired in introductory classes. 300-level studio courses offered outside the Stamps School can also count toward this requirement. These options include:  
*ADABRD 300-399*  
*ARCH 312, Architectural Design*  
*PAT 331, Sound Recording I*  
*PAT 380, Sound for Theatre*  
*RCARTS 385, Interdisciplinary Photographic Applications*  
*RCARTS 389, Ceramics Theory and Criticism*  
*SAC 300, Dramatic Narrative I*  
*SAC 304, The Experimental Screen I*  
*SAC 306, New Media Practices I*  
*THREMUS 356, Lighting Design II*  
*THREMUS 360, Scene Design II*  
*THREMUS 370, Costume Design II*

Higher-level (400) studio courses can also count toward this requirement, with approval.

3. **One academic course (3 credits), selected from the following:**  
*ARTDES 150: Art and Design in Context*  
*ARTDES 151: Art and Design History*  
*ARTDES 155: Intersections*  
*ARTDES 130: Methods of Inquiry*  
*ARTDES 160: Penny W. Stamps Lecture Series (1 credit/semester)*  
*HISTART 271: Origins of Modernism: Art and Culture in Nineteenth Century France*  
*HISTART 272: Modern Art: Avant-Garde to Contemporary*

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

#### Step Four

Complete the [Minor Release Form](#). The purpose of this release form is to inform the student and the student's home unit which courses for the Stamps Minor in Art & Design have been completed, and which courses are still required to complete this minor successfully. You must return this completed form to your home unit to have your Stamps minor listed on your transcript.

# Asian Languages and Cultures

## Asian Languages and Cultures (Minor)

The minor in Asian Languages and Cultures provides a means for majors in other departments to add to their undergraduate program a substantial and structured course of study in an Asian language, combined with a number of courses focused upon Asian culture. The minor offers guidance to students who want to acquire usable language skills and insures that the study of language is grounded in knowledge about the larger culture in which the language is historically produced and used. Undergraduates minoring in ALC will be equipped with specific linguistic capabilities and cultural knowledge they can apply to their inquiries within other disciplinary major. The minor can be elected in conjunction with any of the languages taught through the third year in ALC.

*Effective Fall 2017*

### Exclusions:

*A minor in Asian Languages and Cultures is not open to students with another minor in the Department of Asian Languages and Cultures.*

### Advising

Appointments are scheduled on the department's online advising calendar. Please go to [www.lsa.umich.edu/asian](http://www.lsa.umich.edu/asian) for more information.

Students who have a formal or informal interest in Asian Studies are encouraged to consult a department advisor.

### Grade Policies

No course will count toward the minor unless the student receives a grade of C- or better.

### Prerequisites

Two years (fourth-term proficiency) in an Asian Language.

### Requirements

#### Minimum Credits: 15

At least 15 credits, chosen in consultation with and approved by a department advisor, in the following categories, as stated:

Two terms of an Asian language, taught in the Department of Asian Languages and Cultures, at the third-year level or above.

Asian Studies: At least two courses on Asian culture that will familiarize the student with the contexts of the language the student has studied; one of these courses must be at the 300-level or above.

### Residency

At least 6 of the credits must be elected at the University of Michigan or through an overseas program associated with the U-M.

## Asian Studies (Major)

The major in Asian Studies offers students an opportunity to pursue interests in the traditional and modern civilizations of Asia. The particular courses to be counted toward the major will depend on the individual student's submajor. Students choose a submajor and then

have the option to additionally focus on a field of study. An intellectually coherent combination of fields is permitted.

### Submajors:

Chinese Studies  
Japanese Studies  
Korean Studies  
South Asian Studies  
Southeast Asian Studies

### Suggested Fields of Study:

Cultural Studies  
Film  
Gender Studies  
History/Civilization  
Linguistics  
Literature  
Philosophy  
Performing Arts  
Religion  
Visual Culture

*Effective Fall 2017*

### Advising

Appointments are scheduled on the department's online advising calendar. Please go to [www.lsa.umich.edu/asian](http://www.lsa.umich.edu/asian) for more information.

Students who have a formal or informal interest in Asian Studies are encouraged to consult a department advisor.

### Grade Policies

No course will count toward the major unless the student receives a grade of C- or better.

### Prerequisites

1. One year (or first-year proficiency) of an Asian language taught in the Department of Asian Languages and Cultures.
2. ASIAN 235: Introduction to Asian Studies.\*

\*ASIAN 235 must be completed before declaring the major.

### Requirements

#### Minimum Credits: 30

#### Asian Studies Language Requirement

All majors must have fourth-term proficiency in an Asian language appropriate to their submajor. Majors are strongly encouraged to continue their language training beyond the second year requirement. This is particularly important, if not essential, for students contemplating a graduate program in an Asian field.

*These credits do not count toward the credits needed for the major.*

### Required Courses

#### Course Requirements

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

### Submajor requirement

At least 15 credits in courses in the student's submajor (*e.g.*, South Asian Studies). Students are encouraged to plan their submajor courses in relation to a field of study, if one has been chosen. Up to 10 credits from language courses at the 300 level or above may be counted toward the submajor requirement. 5 credits or more must be taken in Asian Studies in the student's submajor; classical languages (Sanskrit, Classical Japanese, Classical Chinese, Javanese, Old Tibetan) may be used to satisfy this portion of the requirement.

### Breadth requirement [9 credits]

1. ASIAN 381: Research Seminar for Majors.
2. At least six credits from either or both of the following two categories:
  1. Courses exclusively focused on one of the submajors outside the student's chosen submajor, (*e.g.*, a student in the Korean Studies submajor could elect ASIAN 210, The Philippines: Culture and History), or
  2. Trans-regional courses focused on more than one of the submajors (which could include the student's submajor) (*e.g.*, ASIAN 220: Introduction to the Study of Asian Religions, or ASIAN 367: Languages of Asia).

**Cognate requirement** At least 6 credits elected outside the Department of Asian Languages and Cultures from either or both of the following categories:

1. theory or methodology courses that are focused on either the student's chosen field of study or on a discipline complementary to the study of Asia (*e.g.*, Statistics, Linguistics, Social Theory), or
2. courses in the student's chosen submajor, but taken in a department other than Asian Languages and Cultures.

### Constraints

Thirty required credits must be at the 200-level and above, 15 of which must be at the 300-level or above.

### Residency

At least 15 credits of the 30 required credits must be taken in residence at the University of Michigan.

### Honors

Candidates for Honors must complete all regular requirements for the major, and maintain a cumulative grade point average of at least 3.4 and at least 3.5 in courses elected as part of the major. They must also demonstrate the ability to do original work by writing an Honors thesis and must elect the appropriate Honors course(s). Recommendations for the designation of "Honors," "High Honors," and "Highest Honors" in Asian Studies are made on the basis of the student's performance in departmental Honors courses and the quality of the student's Honors thesis.

## Asian Studies (Minor)

The academic minor in Asian Studies allows majors in other departments to undertake a guided and coherent program in Asian

Studies when extensive coursework in an Asian language is impractical for them. In contrast to the Asian Studies concentration, as well as the minor in Asian Languages and Cultures, this academic minor does not contain a language component, it is designed to give students the opportunity to plan a structured and articulated series of courses that will result in an intellectual engagement with the culture of at least one Asian region.

*Effective Fall 2017*

### Exclusions:

*An academic minor in Asian Studies is not open to students with a concentration in Asian Studies or other academic minor in the Department of Asian Languages and Cultures.*

### Advising

Appointments are scheduled on the department's online advising calendar. Please go to [www.lsa.umich.edu/asian](http://www.lsa.umich.edu/asian) for more information.

Students who have a formal or informal interest in Asian Studies are encouraged to consult a department advisor.

### Grade Policies

No course will count toward the minor unless the student receives a grade of C- or better.

### Prerequisites

None.

### Requirements

#### Minimum Credits: 15

At least 15 non-language credits chosen in consultation with and approved by a department advisor:

At least 3 courses in Asian Studies offered through ALC within one of the regional tracks: Chinese Studies, Japanese Studies, Korean Studies, South Asian Studies, or Southeast Asian Studies. Two courses must be elected at the 300-level or above.

An academic minor plan may also be organized around disciplines or lines of inquiry not necessarily defined by a region in consultation with and approved by a department advisor.

### Residency

Twelve of the credits counted toward the academic minor must be elected at the University of Michigan or at an overseas program associated with U-M.

# Astronomy

Will the universe expand forever? Is there life on other planets? How do stars form, live, and die? These are some of the exciting questions confronting astronomers in the twenty-first century. Because of the awe-inspiring immensity of the subject, the study of astronomy has a strong fascination—poetic, philosophical, speculative—for many individuals. In the modern observatory, however, the urge to understand and discover what is happening in the universe finds expression in the scientific pursuit of the subject. To explore the dynamics of colliding galaxies and of interstellar gas in galaxies, to find the compositions of chemically peculiar stars and supernovae remnants, to explain radio-galaxy variations and atomic emissions of quasars—some of the active areas in the Michigan Department of Astronomy—requires patience and dedication, together with the curiosity and talent characteristic of all scientists.

## Astronomy and Astrophysics (Major)

Effective Winter 2017

### Exclusions:

Not open to those with a major in Interdisciplinary Astronomy.

### Advising

The department advisor is Professor Bregman. Information about scheduling advising appointments is available from the Department office.

### Prerequisites

1. Mathematics through MATH 216
2. PHYSICS160/161 [or PHYSICS 140/141 and one of EECS 183, ENGR 101, or an equivalent computing course approved by the Astronomy department advisor]
3. PHYSICS 240/241 or 260/261
4. PHYSICS 340 or 360

### Requirements

Minimum Credits: 36

1. **Astronomy Core:**  
ASTRO 201, 361, 399, 402, 404, and 429
2. **Physics Core:**  
PHYSICS 390, 391, 401, 405
3. **Astronomy Electives:**  
Two of: ASTRO 401, 403, 405, 406, 461, or by permission of instructor, a 500-level ASTRO course.

Students are urged to complete the requirements in physics and mathematics as soon as possible. Students planning graduate work might benefit from knowledge of Spanish, but this is not essential.

### Honors

Students who are interested in scholarly research in astronomy and have a cumulative grade point average of 3.5 are encouraged to consider the Honors plan. Students with a lower GPA may be admitted to the program at the discretion of the department advisor. The

program requires writing a senior Honors thesis based on research done in collaboration with a faculty member. Interested students should consult with the department advisor by the beginning of their junior year.

## Astronomy and Astrophysics (Minor)

The minor in Astronomy and Astrophysics is offered to students with a strong background in physics and math, who wish to develop a deep expertise in astronomy.

Students with a science, math, or engineering major can often incorporate the added dimension of a minor in Astronomy and Astrophysics with only a few additional courses if their degrees already require a significant background in physics.

Effective Fall 2016

### Exclusions:

The minors in Astronomy are not open to students with a major in Department of Astronomy.

### Advising

Students wishing to pursue an academic minor in Astronomy and Astrophysics must develop a specific plan for its completion in consultation with the Professor Bregman. Information about scheduling advising appointments is available from the Department office.

### Prerequisites

1. Mathematics through differential equations: MATH 216 or its equivalent
2. PHYSICS 140/141, 240/241, and 340.

### Requirements

Minimum Credits: 15

1. **Introductory Course:** ASTRO 201
2. **Astronomy Core Courses:** at least two courses chosen from among: ASTRO 361, 402, 404.
3. **Astronomy Electives:** Remaining credits can be selected from ASTRO 399 and 400-level courses not already taken as Astronomy core.

## Interdisciplinary Astronomy (Minor)

The minor in Interdisciplinary Astronomy is offered to students wishing to develop a broad overview of astronomy and understanding of science.

Effective Fall 2016

### Exclusions:

The minors in Astronomy are not open to students with a major in Department of Astronomy.

**Advising**

The department advisor is Professor Bregman. Information about scheduling advising appointments is available from the Department office.

Students wishing to pursue an academic minor in Astronomy and Astrophysics must develop a specific plan for its completion in consultation with the Department's designated advisor. Information about scheduling advising appointments is available from the Department office.

**Prerequisites**

None.

**Requirements****Minimum Credits: 15**

1. **Stellar and Planetary Astrophysics:** ASTRO 101 or 115
2. **Galactic and Extragalactic Astrophysics:** ASTRO 102, 104, 105, or 142
3. **Astronomy Electives:** Six credits from ASTRO 200-level courses
4. **Cognate:** Three credits from a 300 or 400-level interdisciplinary course selected with approval of a department advisor.

Students are encouraged to take introductory Physics courses in their earlier course of study.

## ***Interdisciplinary Astronomy (B.A. or B.S.) (Major)***

The major in Interdisciplinary Astronomy is offered to students wishing to develop a substantive expertise in astronomy, a practical understanding of science, and a basic ability to communicate science to the public. This major offers the opportunity to include contextual understanding of astronomy with respect to history, philosophy of science, and geoscience.

*Effective Winter 2015*

**Exclusions:**

*Not open to those with a major in Astronomy and Astrophysics.*

**Advising**

The department advisor is Professor Bregman. Information about scheduling advising appointments is available from the Department office.

**Prerequisites**

1. MATH 115, 116, and 215
2. PHYSICS 140/141 [or PHYSICS 160/161 or 135/136]
3. PHYSICS 240/241 [or PHYSICS 260/261 or 235/236]
4. PHYSICS 340/341 [or PHYSICS 360/341]

**Requirements****Minimum Credits: 31**

1. **Astronomy Core:** ASTRO 201, 361

2. **Astronomy Electives.** At least six credits from: ASTRO 401, 402, 403, 404, 405, 406, or 461.
3. **ULWR:** ASTRO 429 or ULWR of cognate plan
4. **Cognates.** A minimum of 15 credits of cognate courses as part of an interdisciplinary plan designed with the approval of the department advisor.

# Biology

## Biology (Major)

This major program develops an appreciation of the levels of organization of life, its diversity, and the processes by which life has achieved its present forms. The program is recommended for those who wish to study biology as part of a liberal education, to prepare for a teaching career in secondary schools, or to prepare for graduate study in biology or the health professions.

*Effective Winter 2017*

### Exclusions:

*Students who elect a major in Biology may not elect the following majors: General Biology; Cellular and Molecular Biology; CMB:BME, Ecology and Evolutionary Biology; Ecology, Evolution, and Biodiversity, Microbiology; Plant Biology; Biochemistry; Biomolecular Science; or Neuroscience. They may also not elect a minor in Biology; Ecology and Evolutionary Biology; Plant Biology; Chemistry; or Biochemistry.*

### Advising

Students are advised by a combination of Undergraduate Biology Office staff and faculty department advisors. [Advising](#) topics include investigating majors, declaring a major, course planning, research and honors, major releases, graduate school and career advice. Students who are interested in the Program in Biology majors or minors should consult a general advisor during the freshman year, and are strongly encouraged to meet with a department advisor early in their academic career, but no later than the second term of their sophomore year. It is not necessary to complete every prerequisite before declaring a major.

To make an appointment, go to the Program in Biology website at [www.lsa.umich.edu/biology](http://www.lsa.umich.edu/biology).

### Grade Policies

#### Total Credits and GPA Requirement for Biology:

Minimum 30 cr. in the Major.

Minimum 2.0 GPA in the Major.

GPA is calculated from all mandatory prerequisites, all courses used for major requirements (including cognates) and all courses in BIOLOGY, EEB, and MCDB.

The introductory biology sequence must be taken for a grade. Prerequisites other than introductory biology may be taken pass/fail; however, it is not recommended, especially for chemistry. Remember that at least a C- must be earned to pass a course taken pass/fail.

Courses used for the major may not be taken pass/fail.

### Prerequisites

#### Introductory Biology Sequence:

Choose A or B:

1. BIOLOGY 171, 172 or 174, & 173; or,
2. BIOLOGY 195 (AP) & 173

#### Chemistry Sequence:

- CHEM 210 & 211; and,

- CHEM 215 & 216

#### Quantitative Analysis Sequence:

- CALCULUS I: MATH 115, 120 (AP), 175, 185, or 295; and,
- One course from MATH 116, 121 (AP), 156, 176, 186, or 296; STATS 180, 250 or 280; STATS 400-level or above (min. 3 credits); BIOLOGY 202; BIOPHYS/PHYSICS 290; EECS 203 or 280; EARTH 468; or other course with a MATH 115 prereq. chosen in consultation with a major advisor. [Note: Any course used to fulfill this requirement cannot also be used as a major elective; i.e., a course cannot "double-count."]

#### Physics Sequence:

- Physics I (lecture & lab): One of the following combinations: PHYSICS 125 & 127, 135 & 136, 140 & 141, or 160 & 161. PHYSICS 139 (AP) will also fulfill this requirement.
- Physics II (lecture & lab): One of the following combinations: PHYSICS 126 & 128, 235 & 236, 240 & 241, or 260 & 261. PHYSICS 239 (AP) will also fulfill this requirement.

#### Requirements

##### Minimum Credits: 30

##### Biology Group Options

(Courses with an asterisk (\*) may overlap with the lab requirement):

Choose from one Group I and one from Group II:

- **Group I** - MCDB Elective: Choose 1 from: BIOLOGY 205, BIOLOGY 207\*, BIOLOGY 225, or BIOLOGY 230\*; and,
- **Group II** - EEB Elective: Choose 1 from: BIOLOGY 230\*, BIOLOGY 252\*, BIOLOGY 255\*, BIOLOGY 256, BIOLOGY 281, BIOLOGY 288\*, or EEB 381\*

##### Required Courses

(Courses with an asterisk (\*) may overlap with the lab requirement):

- Genetics: BIOLOGY 305
- Biochemistry: Choose from: MCDB 310, BIOLCHEM 415, or CHEM 351
- Evolution: EEB 390, 391, or 392\*

##### Upper-Level Elective

(May overlap with the lab requirement):

Choose one course in EEB or MCDB at the 300- or 400- level

- EEB/MCDB 301, EEB/MCDB 302, EEB/MCDB 399, EEB/MCDB 499, MCDB 412, and a non-specific (departmental) transfer courses are EXCLUDED.
- EEB/MCDB 300 or 400 (Independent Research), elected for a minimum of 3 credits in a single term, may be used to fulfill this requirement. (3 credit max. applies; see CONSTRAINTS below.)

### Lab Courses for Biology

(This requirement may OVERLAP with other major reqs.):

3 courses with labs are required. Choose from BIOLOGY 207, 226, 230, 252, 255, 288; EEB 300\*, 313, 320, 321, 330, 341, 348, 372, 381, 392, 400\*, 405, 416, 431, 433, 436, 441, 442, 443, 450, 451, 453, 455, 457, 459, 463, 468, 477, 482, 483, 486, 489, 493, 556; MCDB 300\*, 306, 308, 400\*, 413, 416, 419, 423, 424, 429.

*\*EEB/MCDB 300 or 400 (Independent Research), elected for a minimum of 3 credits in a single term, may be used to fulfill a lab requirement. (3 credit max. applies; see CONSTRAINTS below.)*

### Additional Course(s):

Choose additional BIOLOGY, EEB, and MCDB courses at the 200- level and above, to reach 30 major credit hours.

- BIOLOGY 241, BIOLOGY 262, EEB/MCDB 301, EEB/MCDB 302, EEB/MCDB 800, MCDB 412, and non-specific (departmental) transfer courses are EXCLUDED.
- A maximum of two approved cognate courses may be used as additional courses: ANTHRPIO 368; CHEM 230 and above; EARTH 418, 437; ENVIRON 317; HUMGEN 541; MATH 200 and above; MICRBIOL/IMMUN 440; MICRBIOL 405, 415, 460; PHYSICS as approved; PSYCH 332, 337, 338, 530; STATS 400.

### Constraints

- Prerequisites, introductory science courses, and non-specific (departmental) transfer courses are EXCLUDED from the 30 cr. required for the major.
- A maximum of three credits of independent research (BIOLOGY 200, EEB/MCDB 300 or 400) may be counted toward the major.

### Honors

The Program in Biology administers an Honors Program to train students to conduct independent research in the biological sciences. Participating in the honors program allows students to develop their research skills, deepen their understanding of the field, and form productive relationships with faculty and other students. The achievement is noted on the diploma and official transcript.

In addition to completing all the requirements for the major, an honors degree requires:

1. a major GPA of at least 3.4, and
2. the completion of a significant piece of independent research that is
  1. reported in an honors thesis and
  2. presented in a public forum.

For more information, consult the Program in Biology Honors Program Information page or a Program in Biology advisor.

## Biology (Minor)

The minor in biology offers students a coherent program of study and training in the biological sciences. It provides exposure to the fundamental principles of biology, including studies of the structure, organization, and diversity of life. The minor is well suited for students who wish to pursue a career that requires an understanding and appreciation of the life sciences, though it is not intended for students interested in graduate work in biology.

Effective Fall 2015

### Exclusions:

*Students who elect a minor in Biology may not elect the following majors: Biology, General Biology, Plant Biology, Ecology and Evolutionary Biology, Ecology, Evolution, & Biodiversity, Cellular & Molecular Biology, CMB:BME, Microbiology, Neuroscience, or Biochemistry. They may also not elect a minor in Environmental Studies, Plant Biology, or Ecology and Evolutionary Biology.*

The minor in Biology is not intended for students interested in graduate work in the biological sciences.

### Advising

To make an advising appointment, go to the Program in Biology website at <http://lsa.umich.edu/biology/undergraduates/advising.html>

### Grade Policies

#### Total Credits and GPA Requirement for Biology Minor:

Minimum 15 cr. in Minor (minimum of five courses)

Minimum 2.0 GPA in Minor

GPA is calculated from all mandatory prerequisites, all courses used for minor requirements, and all courses in BIOLOGY, EEB, and MCDB.

### Prerequisites

#### Introductory Biology Sequence:

Choose Sequence A or B:

- A. BIOLOGY 171, 172 or 174, & 173; or,
- B. BIOLOGY 195 (AP) & 173

### Requirements

#### Minimum Credits: 15

Five courses totaling at least 15 credits, distributed as follows:

#### Core Courses

Select at least two of the four courses listed. (Courses with an asterisk (\*) may overlap with the lab requirement.)

- Ecology: BIOLOGY 281 or EEB 381\*
- Genetics: BIOLOGY 305
- Biochemistry: Choose from: MCDB 310, BIOLCHEM 415, or CHEM 351
- Evolution: EEB 390, 391, or 392\*

### Lab or Field Course

(This requirement may OVERLAP with other minor reqs.):

Choose one laboratory or field course in BIOLOGY, EEB, or MCDB from the following: BIOLOGY 207, 226, 230, 252, 255, 288; EEB 300\*, 313, 320, 321, 330, 341, 348, 372, 381, 392, 400\*, 405, 416, 431, 433, 436, 441, 442, 443, 450, 451, 453, 455, 457, 459, 463, 468, 477, 482, 483, 486, 489, 493, 556; MCDB 300\*, 306, 308, 400\*, 413, 416, 419, 423, 424, 429.

*\*EEB/MCDB 300 or 400 (Independent Research), elected for a minimum of 3 credits in a single term, may be used to fulfill a lab requirement. (3 credit max. applies; see CONSTRAINTS below.)*



**Upper-Level Elective**

(May overlap with the lab requirement.):

Choose one course in EEB or MCDB at the 300- or 400- level

- EEB/MCDB 301, EEB/MCDB 302, EEB/MCDB 399, EEB/MCDB 499, MCDB 412, and non-specific (departmental) transfer courses are EXCLUDED.
- EEB/MCDB 300 or 400 (Independent Research), elected for a minimum of 3 credits in a single term, may be used to fulfill this requirement. (3 credit max. applies; see CONSTRAINTS below.)

**Additional Course(s)**

Choose additional BIOLOGY, EEB, and MCDB courses at the 200-level and above, to reach 15 minor credit hours.

- BIOLOGY 241, BIOLOGY 262, EEB/MCDB 301, EEB/MCDB 302, EEB/MCDB 800, MCDB 412, and non-specific (departmental) transfer courses are EXCLUDED.

**Constraints**

- Prerequisites, introductory science courses, and non-specific (departmental) transfer courses are EXCLUDED from the 15 cr. required for the minor.
- A maximum of three credits of independent research (BIOLOGY 200, EEB/MCDB 300 or 400) may be counted toward the minor.

## General Biology (Major)

General Biology has many of the same aims as Biology, but it is not recommended for students who wish to pursue graduate work in biology. It is an appropriate preprofessional major. It differs from Biology in that it requires fewer credits, less laboratory work, and has more breadth, particularly in the form of a non-science cognate course (see below).

*Effective Winter 2017*

**Exclusions:**

*Students who elect a major in General Biology may not elect the following majors: Biology; Cellular and Molecular Biology; CMB:BME; Ecology, Evolution, and Biodiversity; Ecology and Evolutionary Biology; Microbiology; Plant Biology; Biochemistry; Biomolecular Science; or Neuroscience. They may also not elect a minor in Biology; Ecology and Evolutionary Biology; Plant Biology; Chemistry; or Biochemistry.*

**Advising**

Students are advised by a combination of Undergraduate Biology Office staff and faculty department advisors. **Advising** topics include investigating majors, declaring a major, course planning, research and honors, major releases, graduate school and career advice. Students who are interested in the Program in Biology majors or minors should consult a general advisor during the freshman year, and are strongly encouraged to meet with a department advisor early in their academic career, but no later than the second term of their sophomore year. It is not necessary to complete every prerequisite before declaring a major.

To make an appointment, go to the Program in Biology website at [www.lsa.umich.edu/biology](http://www.lsa.umich.edu/biology).

**Grade Policies****Total Credits and GPA Requirement for General Biology:**

Minimum 24 cr. in Major

Minimum 2.0 GPA in Major

GPA is calculated from all mandatory prerequisites, all courses used for major requirements (including cognates), and all courses in BIOLOGY, EEB, and MCDB.

The introductory biology sequence must be taken for a grade. Prerequisites other than introductory biology may be taken pass/fail; however, it is not recommended, especially for chemistry. Remember that at least a C- must be earned to pass a course taken pass/fail.

Courses used for the major may not be taken pass/fail.

**Prerequisites****Introductory Biology Sequence:**

Choose Sequence A or B:

- A. BIOLOGY 171, 172 or 174, & 173; or,
- B. BIOLOGY 195 (AP) & 173

**Chemistry Sequence:**

- CHEM 210 & 211; and,
- CHEM 215 & 216

**Quantitative Analysis Sequence:**

- CALCULUS I: MATH 115, 120 (AP), 175, 185, or 295; and,
- One course from: MATH 116, 121 (AP), 156, 176, 186, or 296; STATS 180, 250 or 280; STATS 400-level or above (min. 3 credits); BIOLOGY 202; BIOPHYS/PHYSICS 290; EECS 203 or 280; EARTH 468; or other course with a MATH 115 prereq. chosen in consultation with a major advisor. *[NOTE: Any course used to fulfill this requirement cannot also be used as a major elective; i.e., a course cannot "double-count."]*

**Physics Sequence:**

- Physics I (lecture & lab): One of the following combinations: PHYSICS 125 & 126, 135 & 136, 140 & 141, or 160 & 161. PHYSICS 139 (AP) will also fulfill this requirement.
- Physics II (lecture & lab): One of the following combinations: PHYSICS 126 & 128, 235 & 236, 240 & 241, or 260 & 261. PHYSICS 239 (AP) will also fulfill this requirement.

**Requirements**

**Minimum Credits:** 24

**Biology Group Options:**

(Courses with an asterisk (\*) may overlap with the lab requirement)

Choose one from Group I and one from Group II:

- **Group I** - MCDB Elective: Choose 1 from: BIOLOGY 205, BIOLOGY 207\*, BIOLOGY 225, or BIOLOGY 230\*
- **Group II** - EEB Elective: Choose 1 from: BIOLOGY 230\*, BIOLOGY 252\*, BIOLOGY 255\*, BIOLOGY 256, BIOLOGY 281, BIOLOGY 288\*, or EEB 381\*

**Required Courses:**

(Courses with an asterisk (\*) may overlap with the lab requirement)

- Genetics: BIOLOGY 305
- Biochemistry: Choose from: MCDB 310, BIOLCHEM 415, or CHEM 351
- Evolution: EEB 390, 391, or 392\*

#### Required Cognate:

- Choose one course from the General Biology Cognate list: AMCULT/BIOLOGY 241; ANTHRCUL 256, 344; ENVIRON 256, 270; PHIL 356, 381, 420, 425; RCNSCI 263, 270; RCSSCI 275/HISTORY 285; SOC 330; WOMENSTD 220, 300

#### Lab Courses for General Biology:

(This requirement may OVERLAP with other major reqs.)

- 2 courses with labs are required. Choose from: BIOLOGY 207, 226, 230, 252, 255, 288; EEB 300\*, 313, 320, 321, 330, 341, 348, 372, 381, 392, 400\*, 405, 416, 431, 433, 436, 441, 442, 443, 450, 451, 453, 455, 457, 459, 463, 468, 477, 482, 483, 486, 489, 493, 556; MCDB 300\*, 306, 308, 400\*, 413, 416, 419, 423, 424, 429  
\*EEB/MCDB 300 or 400 (Independent Research), elected for a minimum of 3 credits in a single term, may be used to fulfill a lab requirement. (3 credit max. applies; see CONSTRAINTS below.)

#### Additional Courses:

- Choose additional BIOLOGY, EEB, and MCDB courses at the 200-level and above, to reach 24 major credit hours.
  - BIOLOGY 241, BIOLOGY 262, EEB/MCDB 301, EEB/MCDB 302, EEB/MCDB 800, MCDB 412, and non-specific (departmental) transfer courses are EXCLUDED.

#### Constraints

- Prerequisites, introductory science courses, and non-specific (departmental) transfer courses are EXCLUDED from the 24 cr. required for the major.
- A maximum of three credits of independent research (BIOLOGY 200, EEB/MCDB 300 or 400) may be counted toward the major.

#### Honors

The Program in Biology administers an Honors Program to train students to conduct independent research in the biological sciences. Participating in the honors program allows students to develop their research skills, deepen their understanding of the field, and form productive relationships with faculty and other students. The achievement is noted on the diploma and official transcript.

In addition to completing all the requirements for the major, an honors degree requires:

1. a major GPA of at least 3.4, and
2. the completion of a significant piece of independent research that is
  - reported in an honors thesis and
  - presented in a public forum.

For more information, consult the Program in Biology Honors Program Information page or a Program in Biology advisor.

## Microbiology (Major)

Microbiology is an Interdepartmental Program supervised by the Microbiology Major Committee, with academic support provided by the Program in Biology. Participating units include the Departments of Ecology and Evolutionary Biology (EEB) and Molecular, Cellular, and Developmental Biology (MCDB) in LSA; the Epidemiology Department in the School of Public Health; and the Departments of Microbiology & Immunology and Internal Medicine in the Medical School.

Microbiology includes the study of viruses, algae, bacteria, protozoa, and fungi. Immunobiology is also included within the science of microbiology. A major in microbiology prepares students for graduate study in microbiology, biochemistry, agricultural science, and food science as well as for study in other areas of biology which emphasize cellular structures and their function. A bachelor's degree in microbiology may qualify students for entry-level positions in medical, industrial, or governmental laboratories.

Students intending to go to graduate school should have at least two terms of research experience. These can appear as graded courses, UROP participation, or be independent of the graded curriculum. Most graduate school-bound students will have 1-2 graded research courses (2-4 credits/each) on record.

Effective Spring 2017

#### Exclusions:

*Students who elect a major in Microbiology may not elect the following majors: Biology, General Biology; Cellular and Molecular Biology; CMB:BME; Ecology, Evolution, and Biodiversity; Ecology and Evolutionary Biology; Ecology, Evolution, and Biodiversity; Plant Biology; Biochemistry; Biomolecular Science; or Neuroscience. They may also not elect a minor in Biology, Ecology and Evolutionary Biology, Plant Biology; Chemistry; or Biochemistry.*

#### Advising

Students are advised by a combination of Undergraduate Biology Office staff and faculty department advisors. Advising topics include investigating majors, declaring a major, course planning, research and honors, major releases, graduate school and career advice. Students who are interested in the Microbiology major should consult a general advisor during the freshman year, and are strongly encouraged to meet with a department advisor early in their academic career, but no later than the second term of their sophomore year. It is not necessary to complete every prerequisite before declaring a major. To make an appointment, go to the Program in Biology website at <http://www.lsa.umich.edu/biology/>.

#### Grade Policies

##### Total Credits and GPA Requirement for Microbiology:

Minimum 32 cr. in Major

Minimum 2.0 GPA in Major

GPA is calculated from all mandatory prerequisites, all courses used for major requirements (including cognates), and all courses in BIOLOGY, EEB, MCDB, EPID, INTMED, and MICRBIOL.

The introductory biology sequence must be taken for a grade. Prerequisites other than introductory biology may be taken pass/fail; however, it is not recommended, especially for chemistry. Remember that at least a C- must be earned to pass a course taken pass/fail.

Courses used for the major may not be taken pass/fail.

### Prerequisites

#### Introductory Biology Sequence:

Choose Sequence A or B:

1. BIOLOGY 171, 172 or 174, & 173; or,
2. BIOLOGY 195 (AP) & 173

#### Chemistry Sequence:

- CHEM 210 & 211; and,
- CHEM 215 & 216

#### Quantitative Analysis Sequence:

- CALCULUS I: MATH 115, 120 (AP), 175, 185, or 295; and,
- One course from: MATH 116, 121 (AP), 156, 176, 186, or 296; STATS 180, 250 or 280; STATS 400-level or above (min. 3 credits); BIOLOGY 202; BIOPHYS/PHYSICS 290; EECS 203 or 280; EARTH 468; or other course with a MATH 115 prereq. chosen in consultation with a major advisor. [Note: Any course used to fulfill this requirement cannot also be used as a major elective; i.e., a course cannot "double-count."]

#### Physics Sequence:

- Physics I (lecture & lab): One of the following combinations: PHYSICS 125 & 127, 135 & 136, 140 & 141, or 160 & 161. PHYSICS 139 (AP) will also fulfill this requirement.
- Physics II (lecture & lab): One of the following combinations: PHYSICS 126 & 128, 235 & 236, 240 & 241, or 260 & 261. PHYSICS 239 (AP) will also fulfill this requirement.

### Requirements

Minimum Credits: 32

#### Core Courses:

- Microbiology: BIOLOGY 207
- Genetics: BIOLOGY 305
- Biochemistry: Choose from: MCDB 310, BIOLCHEM 415, or CHEM 351
- Advanced Laboratory: Choose from: MCDB 306, MCDB 429, EPID 545, or EPID 504\*  
\*If EPID 504 is used as a Core Course, it cannot also be used as an Upper-Level Elective, i.e., courses cannot "double-count"

#### Elective Requirement (A minimum of 19 credits is required):

- **Group 1: Specified Electives** (A minimum of 4 courses, 12 credits is required):
  - Choose at least two courses from Group 1: EEB 315, 446, 468, 470; EPID 460; MCDB 408, 415, 416, 436\*, 444, 489; MICRBIOL 320, 405, 415, 430, 440\*, 460; INTMED 320, 460.  
\*Only one of MCDB 436 and MICRBIOL 440 will count toward the major.
- **Group 2: Additional Electives** (Select additional courses to bring Upper-Level Electives to 19 credits):

- Additional Group 1 Electives may be used to meet this requirement.
- Choose from: BIOLOGY 225 or CHEM 230 (only one of these will count toward the major); CHEM 452, EARTH/EEB 313 (F17); EARTH 413; EEB 390, 391, 392, 400\* (3 cr.), 401, 476, 482, 483; EPIC 399\* (3 cr.), 504 (only if not used as a Core Course), 505, 507, 525; 2nd term of INTMED 499\* (3 cr.); MATH courses with a MATH 116 prerequisite; MCDB 400\* (3 cr.), 401, 411, 427, 428; MICRBIOL 399\* (3 cr.); STATS courses at the 400-level or higher.  
\*3 credit max. applies; see CONSTRAINTS below.

#### Constraints

- Prerequisites, introductory science courses, and non-specific (departmental) transfer courses are EXCLUDED from the 32 cr. required for the major.
- A maximum of three credits of independent research (EEB 400, MCDB 400, EPID 399, MICRBIOL 399, INTMED 499) may be counted toward the major.
- Only one of MCDB 436 and MICRBIOL 440 will count toward the major.
- Only one of BIOLOGY 225 and CHEM 230 will count toward the major.

#### Honors

The Program in Biology administers an Honors Program to train students to conduct independent research in the biological sciences. Participating in the honors program allows students to develop their research skills, deepen their understanding of the field, and form productive relationships with faculty and other students. The achievement is noted on the diploma and official transcript.

In addition to completing all the requirements for the major, an honors degree requires:

1. a major GPA of at least 3.4, and
2. the completion of a significant piece of independent research that is
  1. reported in an honors thesis and
  2. presented in a public forum.

For more information, consult the Program in [Biology Honors Program Information page](#) or a Program in Biology advisor.

## Plant Biology (Major)

The Plant Biology major provides undergraduates with training in those areas of science that are essential to an understanding of modern plant sciences. Like the Biology major, this major deals with all of the major levels of biological organization (molecular, cellular, organismal, ecological, and evolutionary), but differs from the Biology major by its greater emphasis on the biology of plants. This program is well suited for those who wish to study biology as part of a liberal education, or to prepare for a teaching career in secondary schools. It also provides excellent preparation for graduate study in basic and applied areas of the plant sciences and related fields, such as ecology, genetics, microbiology, and biochemistry.

Effective Winter 2017

**Exclusions:**

Students who elect a major in Plant Biology may not elect the following majors: Biology, General Biology; Cellular and Molecular Biology; CMB:BME; Ecology, Evolution, and Biodiversity; Ecology and Evolutionary Biology; Microbiology; or Neuroscience. They may also not elect a minor in Biology; Ecology and Evolutionary Biology; Plant Biology; Chemistry; or Biochemistry.

**Advising**

Students are advised by a combination of Undergraduate Biology Office staff and faculty department advisors. **Advising** topics include investigating majors, declaring a major, course planning, research and honors, major releases, graduate school and career advice. Students who are interested in the Program in Biology majors or minors should consult a general advisor during the freshman year, and are strongly encouraged to meet with a department advisor early in their academic career, but no later than the second term of their sophomore year. It is not necessary to complete every prerequisite before declaring a major.

To make an appointment, go to the Program in Biology website at [www.lsa.umich.edu/biology](http://www.lsa.umich.edu/biology).

**Grade Policies****Total Credits and GPA Requirement for Plant Biology**

Minimum 30 cr. in Major

Minimum 2.0 GPA in Major

GPA is calculated from all mandatory prerequisites, all courses used for major requirements (including cognates), and all courses in BIOLOGY, EEB, and MCDB.

The introductory biology sequence must be taken for a grade. Prerequisites other than introductory biology may be taken pass/fail; however, it is not recommended, especially for chemistry. Remember that at least a C- must be earned to pass a course taken pass/fail.

Courses used for the major may not be taken pass/fail.

**Prerequisites****Introductory Biology Sequence:**

Choose Sequence A or B:

1. BIOLOGY 171, 172 or 174; & 173; or,
2. BIOLOGY 195 (AP) & 173

**Chemistry Sequence:**

- CHEM 210 & 211; and,
- CHEM 215 & 216

**Quantitative Analysis Sequence:**

- CALCULUS I: MATH 115, 120 (AP), 175, 185, or 295; and,
- One course from: MATH 116, 121 (AP), 156, 176, 186, or 296; STATS 180, 250 or 280; STATS 400-level or above (min. 3 credits); BIOLOGY 202; BIOPHYS/PHYSICS 290; EECS 203 or 280; EARTH 468; or other course with a MATH 115 prereq. chosen in consultation with a major advisor. [NOTE: Any course used to fulfill this requirement cannot also be used as a major elective, i.e., a course cannot "double-count".]

**Physics Sequence:**

- Physics I (lecture & lab): One of the following combinations: PHYSICS 125 & 127, 135 & 136, 140 & 141, or 160 & 161. PHYSICS 139 (AP) will also fulfill this requirement.
- Physics II (lecture & lab): One of the following combinations: PHYSICS 126 & 128, 235 & 236, 240 & 241, or 260 & 261. PHYSICS 239 (AP) will also fulfill this requirement.

**Requirements****Minimum Credits: 30**

**Required General Courses:** Select at least three of the four courses listed. (**Note:** the fourth course not used to fulfill this requirement may be taken as an additional elective.)

- Ecology: BIOLOGY 281 or EEB 381
- Genetics: BIOLOGY 305
- Biochemistry: Choose from: MCDB 310, BIOLCHEM 415, or CHEM 351
- Evolution: EEB 390, 391, or 392

**Required Plant Biology Courses:** (**Note:** Any course used to fulfill this requirement cannot also be used as an Elective Plant Biology Course: i.e., a course cannot "double-count".)

- BIOLOGY 230 (Plant Biology)
- BIOLOGY 255 (Plant Diversity), or EEB 436 (Woody Plants)
- MCDB 321 (Plant Physiology), or MCDB 430 (Plant Molecular Biology), or MCDB 433 (Plant Biochemistry)

**Elective Plant Biology Courses:** Two courses from the Elective Plant Biology Lab course list are required; one must be a lab. (**Note:** Any course used to fulfill this requirement cannot also be used as a Required Plant Biology Course: i.e., a course cannot "double-count".)

- Group I - Choose one course from the approved Elective Plant Biology Lab course list: EEB 300\*, 372, 400\*, 436, 455, 457, 459, 463, 556; MCDB 300\*, 400\*, 413 (\*EEB/MCDB 300 or 400 (Independent Research), elected for a minimum of 3 credits in a single term and conducted in a plant biology research lab, may be used to fulfill the lab requirement. (3 credit max. applies; see CONSTRAINTS below.))
- Group II - Choose one course from: EEB 372, 401 (applicable sections only), 412, 420, 436, 455, 457, 459, 463, 472, 556; MCDB 401 (applicable sections only), 406, 413, 430, 433

**Additional Courses:**

- Choose additional BIOLOGY, EEB, and MCDB courses at the 200-level and above, to reach 30 major credit hours.
  - BIOLOGY 200, BIOLOGY 241, BIOLOGY 262, EEB/MCDB 301, EEB/MCDB 302, EEB/MCDB 800, MCDB 412, and non-specific (departmental) transfer courses are EXCLUDED.
  - The fourth course not taken under "Required General Courses" above may be used here.
  - One cognate course, with advisor approval, may be used toward the major.

**Constraints**

- Prerequisites, introductory science courses, and non-specific (departmental) transfer courses are EXCLUDED from the 30 cr. required for the major.
- A maximum of three credits of independent research (EEB/MCDB 300 or 400) may be counted toward the major.

### Honors

The Program in Biology administers an Honors Program to train students to conduct independent research in the biological sciences. Participating in the honors program allows students to develop their research skills, deepen their understanding of the field, and form productive relationships with faculty and other students. The achievement is noted on the diploma and official transcript.

In addition to completing all the requirements for the major, an honors degree requires:

1. a major GPA of at least 3.4, and
2. the completion of a significant piece of independent research that is
  1. reported in an honors thesis and
  2. presented in a public forum.

For more information, consult the Program in Biology Honors Program Information page or a Program in Biology advisor.

## Plant Biology (Minor)

A minor in Plant Biology provides undergraduates with exposure to several areas of science that are essential to an understanding of modern Botany. This program is well suited for those who wish to study plant biology as part of a liberal arts education, to prepare for a teaching career in secondary schools, as additional breadth for pre-professional students, or who simply have an interest in learning more about plants. It is not intended to provide preparation for graduate study in basic and applied areas of the plant sciences and related fields, such as ecology, microbiology, and biochemistry.

Effective Winter 2016

### Exclusions:

*Students who elect a minor in Plant Biology may not elect the following majors: Biology; General Biology; Plant Biology; Ecology, Evolution, and Biodiversity; Ecology and Evolutionary Biology; Cellular and Molecular Biology, Microbiology, Neuroscience, or Biochemistry. They also may not elect a minor in Biology or Ecology and Evolutionary Biology.*

### Advising

To make an advising appointment, go to the Program in Biology website at <http://www.lsa.umich.edu/biology/>

### Grade Policies

#### Total Credits and GPA Requirement for Plant Biology Minor:

Minimum 15 cr. in Minor

Minimum 2.0 GPA in Minor

GPA is calculated from all mandatory prerequisites, all courses used for minor requirements, and all courses in BIOLOGY, EEB, and MCDB.

### Prerequisites

### Introductory Biology Sequence:

Choose Sequence A or B:

1. BIOLOGY 171, 172 or 174, & 173; or,
2. BIOLOGY 195 (AP) & 173

### Requirements

**Minimum Credits:** 15

#### Core Courses:

Select at least two of the four courses listed.

- Ecology: BIOLOGY 281 or EEB 381
- Genetics: BIOLOGY 305
- Biochemistry: Choose from: MCDB 310, BIOLCHEM 415, or CHEM 351
- Evolution: EEB 390, 391, or 392

#### Plant Biology Course:

(Courses with an asterisk (\*) may overlap with the lab requirement)

- Choose one of the following: BIOLOGY 230\*, BIOLOGY 255\*, or MCDB 321

#### Upper-Level Elective:

(Courses with an asterisk (\*) may overlap with the lab requirement)

- Choose one course from the following: EEB 372\*, 401 (applicable sections only), 412, 420, 436\*, 455\*, 457\*, 459\*, 463\*, 472, 556\*; MCDB 321, 401 (applicable sections only), 406, 413\*, 430, 433

#### Lab Requirement:

(This requirement may OVERLAP with other minor reqs.)

- Choose one Plant Biology lab course from the following: BIOLOGY 230, 255; EEB 300\*, 372, 400\*, 436, 455, 457, 459, 463, 556; MCDB 300\*, 400\*, 413  
*\*EEB/MCDB 300 or 400 (Independent Research), elected for a minimum of 3 credits in a single term, may be used to fulfill a lab requirement. (3 credit max. applies; see CONSTRAINTS below.)*

#### Additional Plant Biology Minor Electives:

- Choose additional Plant Biology minor electives from the approved list, to reach at least 15 credits in the minor: BIOLOGY 230, 255; EEB 372, 401 (applicable sections only), 412, 420, 436, 455, 457, 459, 463, 472, 556; MCDB 321, 401 (applicable sections only), 406, 413, 430, 433

### Constraints

- Prerequisites, introductory science courses, and non-specific (departmental) transfer courses are EXCLUDED from the 15 cr. required for the minor
- A maximum of three credits of independent research (EEB/MCDB 300 or 400) may be counted toward the minor.

# Biophysics

## Biological Physics Track (Sub-Major)

The Biological Physics track is primarily focused on educating undergraduate students in the basics of Biophysics. In addition, participation in research is required, which allows students to explore cutting-edge biophysical research and gain valuable experience for a future career.

*Effective Fall 2016*

### Prerequisites

- Math 115 and 116
- Math 215 and 216; **or** Chem 262
- Chem 210/211 and 215
- Physics 135/136 and 235/236 **or** 140/141 and 240/241
- Bio 171, 172, 174 **or** 195

NOTE: students with Math AP credit are advised to take the Math 215, 216 sequence

### Requirements

**Minimum Credits:** 32

### Core:

1. BIOPHYS 290: Physics of the Body & Mind
2. BIOPHYS 370: Physical and Chemical Principles behind Biology and Medicine
3. BIOPHYS 417: Dynamical Processes in Biophysics
4. BIOPHYS 454: Macromolecular Structure and Function
5. BIOPHYS 450: Biophysics Laboratory
6. BIOPHYS 495: Senior Seminar in Biophysics

### Outside Core:

1. CHEM 351: Fundamentals of Biochemistry
2. BIOLOGY 305: Genetics

### Electives:

One of the following:

- BIOPHYS 430: Medical Physics
- BIOPHYS 433: Biocomplexity
- BIOPHYS 435: Biophysical Modeling
- BIOPHYS 440: Biophysics of Diseases
- BIOPHYS 463: Mathematical Modeling in Biology
- MCDB 411: Protein Structure and Function

Note: Other 400-level Physics, Chemistry, or Biology courses may be accepted, per approval of the Undergraduate Chair

### Cognate:

One of the following:

- MATH 404: Intermediate Differential Equations
- MATH 471: Intro to Numerical Methods
- PHYSICS 406: Statistical Mechanics and Thermodynamics
- PHYSICS 453: Quantum Mechanics
- CHEM 451: Biochemistry I
- MCDB 427: Molecular Biology
- MCDB 428: Cell Biology

Note: Other 400-level Physics, Chemistry, or Biology courses may be accepted, per approval of the Undergraduate Chair

### Research:

At least two credits of BIOPHYS 399. Students wishing to conduct research in a laboratory outside of the Program must identify a Biophysics co-sponsor.

### Honors

In addition to completing all the Biophysics requirements for the major, a GPA in the major of at least 3.4 and the completion of an Honors thesis (BIOPHYS 499) with a grade of B or better, and a second Biophysics elective are required. **Approved Honors electives are all Biophysics and cognate electives above, and BIOPHYS 440 or CHEM 440, CHEM 453, MCDB 422, MCDB 428, PHYSICS 402 and PHYSICS 453.**

## Biophysics (Minor)

The minor in biophysics is designed to give students in the natural sciences exposure and skills in quantitative, interdisciplinary work in the biophysical sciences.

*Effective Winter 2016*

### Exclusions:

*Not open to those electing a major in the Program in Biophysics.*

### Advising

The Program in Biophysics currently offers a [B.S. degree in Biophysics](#) and a minor in Biophysics. Students interested in either option are strongly encouraged to schedule an advising appointment by contacting Student Services at [biophysics@umich.edu](mailto:biophysics@umich.edu).

### Prerequisites

None for the minor *per se*, although individual courses elected to meet the requirements of the minor may have course prerequisites.

### Requirements

**Minimum Credits:** 15

The minor requires at least 15 credits from the following courses:

- PHYSICS 340 or CHEM 210
- BIOLOGY 305 or MCDB 310 or CHEM 351

- BIOPHYS 370 or 417, or PHYSICS 370 or 417, or CHEM 370 or 417
- BIOPHYS 290 or 430 or 440, or PHYSICS 290 or 430, or CHEM 440
- BIOPHYS 450 or PHYSICS 450

Students wishing to pursue this option are strongly encouraged to talk to an advisor because the LSA rules for double-counting courses towards a major and minor apply.

## Biophysics (B.S.) (Major)

The biophysics major is designed for students with a strong interest in the natural sciences who intend to embark on a career as a biophysical or medical scientist. It is intended to satisfy the admission requirements of most combined MD/Ph.D. programs and provide a strong foundation for quantitative interdisciplinary work in the biophysical or biomedical sciences or related fields, such as biomedical engineering.

The major requires introductory courses in Mathematics, Physics, Chemistry and Biology, followed by specialized biophysics courses. In addition, participation in research is required, which allows students to explore cutting-edge biophysical research and gain valuable experience for a future career.

*Effective Fall 2016*

### Advising

The Program in Biophysics currently offers a **B.S. degree in Biophysics** and a [minor in Biophysics](#). Students interested in either option are strongly encouraged to schedule an advising appointment by contacting Student Services at [biophysics@umich.edu](mailto:biophysics@umich.edu).

### Grade Policies

The Biophysics department strongly recommends that a student earn a grade of at least C– in all BIOPHYS courses and mathematics, chemistry, physics, and biology courses that are prerequisite for subsequent elections. A major program grade point average of at least 2.0 is required; this includes biophysics courses, chemistry, mathematics, physics, and biology prerequisites, and advanced electives that are part of a major plan.

### Prerequisites

See specific prerequisites listed under Biological Physics Track or Structural Biology Track.

### Requirements

#### Minimum Credits: 32

The Biophysics Major consists of two tracks:

- [Biological Physics Track](#)
- [Structural Biology Track](#)

### Constraints

Students double majoring in Biophysics and any major in the Department of Physics cannot use PHYSICS 402, 406, or 453 to satisfy the Biophysics cognate or Honors elective requirement.

### Honors

In addition to completing all the Biophysics requirements for the major, a GPA in the major of at least 3.4 and the completion of an Honors thesis (BIOPHYS 499) with a grade of B or better, and a second Biophysics elective are required.

Approved Honors electives are all biophysics and cognate electives above, and BIOPHYS 440 or CHEM 440, CHEM 453, MCDB 422, MCDB 428, PHYSICS 402, and PHYSICS 453.

## Structural Biology Track (Sub-Major)

The Structural Biology Track is intended to educate students on the applications of Biophysics to fully understand the recent advances in biological and biomedical sciences, and to prepare them for careers that integrate the physical principles that govern biology with the modern methods and techniques that represent the forefront of structurally directed biophysical research. Students who pursue the Structural Biology track will be well equipped for graduate studies in biophysics, biochemistry, chemical biology, biomedical engineering, and also in other disciplines of life sciences. This track also will provide excellent preparation for students intending to pursue professional careers in the Biotechnology industry as well as the Health Sciences.

*Effective Fall 2016*

### Prerequisites

- MATH 115 and 116
- CHEM 262
- CHEM 210 / 211, 215;
- PHYSICS 135 / 136 and 235 / 236 (*or* 140/141 and 240/241);
- BIOLOGY 171; and 172 *or* 174 *or* 195.

### Requirements

#### Minimum Credits: 30

#### Core:

1. BIOPHYS 370: Physical and Chemical Principles behind Biology and Medicine
2. BIOPHYS 420: Structural Biology I
3. BIOPHYS 421: Structural Biology II
4. BIOPHYS 450: Biophysics Laboratory
5. BIOPHYS 495: Senior Seminar in Biophysics

#### Outside Core:

- CHEM 351: Fundamentals of Biochemistry *or*
- MCDB 310: Introductory Biochemistry *or*
- BIOLCHEM 415: Introductory Biochemistry *or*
- BIOLOGY 305: Genetics

#### Electives:

One of the following:

- BIOPHYS 430: Medical Physics

- BIOPHYS 435: Biophysical Modeling
- BIOPHYS 440: Biophysics of Diseases
- BIOPHYS 454: Biophysical Chemistry II
- BIOPHYS 463: Mathematical Modeling in Biology
- BIOPHYS 520: Theory & Methods of Biological Chemistry
- BIOPHYS 521: Techniques in Biophysical Chemistry
- MCDB 411: Protein Structure and Function

Note: Other 400-level Physics, Chemistry, or Biology courses may be accepted, per approval of the Undergraduate Chair

**Cognate:**

One of the following:

- CHEM 451: Biochemistry I
- MCDB 427: Molecular Biology
- MCDB 428: Cell Biology
- BIOLCHEM 530: Protein Protein or Protein-Ligand Interactions by NMR
- BIOLCHEM 550: Macromolecular Structure and Function

Note: Other 400-level Physics, Chemistry, or Biology courses may be accepted, per approval of the Undergraduate Chair

**Research:**

At least two credits of BIOPHYS 399. Students wishing to conduct research in a laboratory outside of the Program must identify a Biophysics co-sponsor.

**Honors**

In addition to completing all the Biophysics requirements for the major, a GPA in the major of at least 3.4 and the completion of an Honors thesis (BIOPHYS 499) with a grade of B or better, and a second Biophysics elective are required. **Approved Honors electives are all Biophysics and cognate electives above, and BIOPHYS 440 or CHEM 440, CHEM 453, MCDB 422, MCDB 428, PHYSICS 402 and PHYSICS 453.**



# Stephen M. Ross School of Business

## Business (Minor)

The Minor in Business is designed for students who would like to complement their undergraduate major with business knowledge. The curriculum will enable students to integrate business concepts, skills, and perspectives into their declared majors and will add value to many technical and non-technical majors across campus. Facilities, clubs, corporate visits, career fairs, and career-prep seminars will all be open to minors.

With a Ross Minor in Business, you can complement your undergrad major from another University of Michigan college with core business concepts. A cohesive set of courses arms you with the fundamental business skills that will round out your education — and make you a more attractive job candidate.

To earn the minor, you must successfully complete 15 credit hours at Ross, including a flexible core and electives. In addition, you must also complete certain [prerequisites](#) and the co-requisite ECON 101 (see below).

Eligible courses you took before being accepted to the minor can count toward the requirements. You must complete all minor requirement courses for credit and for a grade (not pass/fail). A minimum cumulative GPA of 2.000 is required within the minor coursework.

Only students who are accepted to the minor via the admission process will be eligible to have the Minor in Business listed on their university record, regardless of coursework completed. Once admitted to the minor, you will work with a Ross advisor to declare the minor, confirm you are meeting the minor requirements, and determine the appropriate coursework from these options. Questions? Contact [BusinessMinor@umich.edu](mailto:BusinessMinor@umich.edu). Admitted students may schedule a Minor in Business advising appointment.

Questions?

Contact [BusinessMinor@umich.edu](mailto:BusinessMinor@umich.edu). Admitted students may schedule a Minor in Business advising appointment.

### COREQUISITE

Complete this before graduation

You must complete ECON 101, Microeconomics, before graduation.

- Includes IB, A-level, or transfer credit for the exact U-M course equivalent (not departmental credit, e.g., ECON 101X)
- AP credit will NOT fulfill this requirement
- Can be completed for a letter grade or as pass/fail
- ECON 401 will also fulfill the ECON 101 corequisite requirement

### CORE COURSES

12 credits, which you may complete in any order

- ACC 300 Financial Accounting or ACC 471 Accounting Principles
- FIN 302 Making Financial Decisions or TO 302 Managing Business Operations
- MKT 302 Marketing Management or MO 302 Positively Leading People and Organizations
- STRATEGY 302 Business Strategy or an action-based learning course from the following list (subject to change; consult with an advisor in the Ross Office of Undergraduate Programs):
  - Approved Action-Based Learning Courses:
    - ES 395 Entrepreneurial Management
    - ES 445/STRATEGY 445 Base of the Pyramid: Business Innovation for Solving Society's Problems
    - MKT 401 Marketing Management II
    - MKT 411 Advertising Management
    - MO 455/456 Magnify Immersion Program
  - Approved Action-Based Learning Capstone courses (Seniors only):
    - BA 453 Action Learning Project
    - MO 463 Leading Creativity and Innovation
    - MO/STRATEGY 470 Strategic Management of Knowledge in Professional Service Firms
    - STRATEGY 492 Dynamic Capabilities Through Corporate Development
    - TO 465 Business Systems Consulting
    - TO 482 Projects in Operations, Purchasing and Supply Chain Management

### ELECTIVES

3 credits minimum

At least three credits of electives are required for the minor. Consult with an advisor to make the best choices for you. (List subject to change.)

- ACC 301 Managerial Accounting (3)
- ACC 312 Intermediate Financial Accounting (3)
- ACC 315 Cost Accounting (3)
- ACC 318 Financial Statement Analysis (3)
- BA 201/ENTR 390 Business Thought and Action (3)
- BE 311 Public Policies Toward Business (3)
- BE 440/MATH 422 Risk Management & Insurance (3)

- BL 305 Legal Environment (3)
- BL 306 Law of Enterprise Organization (3)
- BL 309 Business Ethics and Accountability (1.5)
- BL 310 Negotiation and Dispute Resolution (1.5)
- ES 250 Introduction to Entrepreneurship (3)
- FIN 317 Corporate Financing Decisions (3)
- FIN 320 Real Estate Fundamentals (1.5)
- FIN 321 Commercial Real Estate Finance (1.5)
- FIN/ES 329 Financing Research Commercialization (3)
- FIN 334 Applied Quant/Value Portfolio Management (3)
- FIN 408 Capital Markets and Investment Strategy (1.5)
- FIN 409 Fixed Income Securities and Markets (1.5)
- FIN 415 Corporate Investment Decisions (3)
- FIN 425 Entrepreneurial Finance (3)
- FIN 440 Financial Trading (1.5)
- FIN 480 Options and Futures in Financial Decisions (1.5)
- MKT 303 Brand Management (1.5)
- MKT 313 Consumer Behavior (3)
- MKT 408 Pricing (3)
- MKT 418 Marketing Analytics (3)
- MKT/ES 425 New Product Management (3)
- MO 321 Leadership in Organizations (3)
- MO 414 Managing Change (3)
- MO 415 Introduction to Managing Human Capital (3)
- MO 455 Foundations in POS (Positive Organizational Scholarship) (3)
- STRATEGY 310 The World Economy (3)
- STRATEGY 361 International Management (3)
- STRATEGY 411 Corporation in Society (3)
- STRATEGY 417 Behavioral Processes of Strategic Management (3)
- TO 410 Supply Chain Management (3)
- TO 411 Decision Support with Excel (3)

or any [Ross Global Immersion](#), [Global Practicum](#), [Global Study & Intern Programs](#) course

## Entrepreneurship (Minor)

Having completed the minor, students should expect to:

1. Encompass a creative vision of the social, cultural, and economic landscape of the present and future

2. Have an ability to identify problems as opportunities and to develop creative and innovative solutions through invention or translation across categorical boundaries
3. Possess a skill in developing and coordinating a structure that will produce an audience or market for the solutions
4. Have confidence to take risks in order to function as an active agent in one's own life and as a citizen of the world

*Effective Winter 2015*

### Exclusions:

*A minor in Entrepreneurship is not open to those electing the Program in Entrepreneurship supplemental studies.*

### Prerequisites

None. Students must be of sophomore standing or above to declare.

### Requirements

#### Minimum Credits: 15

A minimum of 15 credits of courses

#### 1. **Core:**

1. ES 212: Entrepreneurial Business Basics  
*or*  
UC 270: University Courses Special Topics, *section titled "Entrepreneurial Business Basics"*
2. PSYCH 218: Sophomore Seminar in Psychology as a Social Science, *section titled "Entrepreneurial Creativity"*;  
ALA 261: Social Science Topics in ALA, *section titled "Entrepreneurial Creativity"*;  
UC 270: University Courses Special Topics, *section titled "Entrepreneurial Creativity"*;  
*or*  
ALA/PSYCH 223: Entrepreneurial Creativity

#### 2. **Electives: minimum 3 credits selected from an approved list** (see below).

Electives present students with an opportunity to explore disciplinary areas in more academic depth related to their entrepreneurial interest.

#### 3. **Practicum Experience.** The third and final part of the requirement for a Minor in Entrepreneurship is a minimum of 6 credits of an immersive, experiential learning opportunity. Key to this practical experience is a strong focus on:

1. the identification and opportunity recognition and also
2. implementation and execution of the idea for a relatively large external audience.

#### Courses:

- ALA 256: Innovator's Toolkit
- ALA 270: Applied Liberal Arts Topics, *section titled "Innovator's Toolkit"*
- ARTSADMN 406: Special Topics, *section titled "Starting Music Businesses"*
- ENTR 411: Entrepreneurship Practicum

- ENTR 412: Advanced Entrepreneurship Practicum
- ES 414: Entrepreneurship Practicum
- FIN 329: Financing Research Commercialization

#### Entrepreneurship Electives

- ARCH 409: Special Topics in Architecture, *section titled "Designing Practices"*
- ARTDES 194: Build Design Prototype
- ARTDES 195: Working with Wood
- ARTDES 196: Working with Metal
- ARTDES 314: Change by Design
- BA 201/ENTR 390: Business Entrepreneurship in Thought & Action
- BCOM 329: Social Media and the Changing Nature of Business Communications
- ECON 490: Economics of Entrepreneurship
- EECS 441: Mobile App Development for Entrepreneurs
- EECS/ENGR 410: Patent Fundamentals for Engineers
- ENGR 520: Entrepreneurial Business Fundamentals
- ENGR 521: CleanTech Entrepreneurship
- ENGR/CHE 405: Problem Solving, Troubleshooting, Entrepreneurship, Intrapreneurship, and Making the Transition to the Workplace
- ENGR/EECS 406: High Tech Entrepreneurship
- ENTR 390: Leading Innovation Through Social Entrepreneurship
- ENTR 407: Entrepreneurship Hour
- ENTR 408: Patent Law
- ENTR 409: Venture Business Development
- ENTR 410: Finding Your Venture
- ENTR 413: Entrepreneurial Marketing
- ENTR 417: Entrepreneurship Hour Discussion Section
- ENTR 490.004/.005: Design Prototyping
- ENTR 490.006/.007: Working With Wood
- ENTR 490.008/.009: Working With Metal
- ENTR 490.012: Urban Entrepreneurship
- ES 250: Introduction to Entrepreneurship
- ES 395: Entrepreneurship Management
- ES 427: Family Business
- ES 444: Introduction to Microfinance
- ES 569/451: Managing the Growth of New Ventures

- IOE 422: Entrepreneurship
- MECHENG 455: Analytical Product Design
- MECHENG 499: Front-End Design
- MKT 322: Digital Marketing
- MKT/ES 425: New Product and Innovation Management
- MO 463: Creativity at Work
- ORGSTUDY 201: Leadership and Collaboration
- ORGSTUDY 202: Practicum in Leadership and Collaboration
- PSYCH 443: Creativity
- PSYCH 487: Negotiations
- PSYCH 487: Startups and Upstarts: Psychology of Entrepreneurship and Intrapreneurship
- SW 305: Theories and Practice for Community Action and Social Change
- THTREMUS 324: Global Community Practicum
- THTREMUS 385: Performing Arts Management
- THTREMUS 245: Introduction to Stage Management
- UARTS 250: Creative Process
- WOMENSTD 350: Nonprofit Management, Community Engagement, and Feminist Practice
- WOMENSTD 443: Pedagogy of Empowerment: Activism in Race, Gender and Health

## Entrepreneurship Supplemental Studies (Supplemental Study Program)

The primary purpose of the Program in Entrepreneurship (PIE) is to give students who are not able to commit to the full Minor in Entrepreneurship a formal academic program structure through which they can acquire fundamental entrepreneurial knowledge. The new Program in Entrepreneurship will focus on social sciences, specifically entrepreneurial creativity, and include a wide breadth of electives reflecting the breadths of entrepreneurial interests for our students focused on a wide range of entrepreneurial activities from social entrepreneurship, technology startups to design and arts-focused entrepreneurial activities.

*Effective Winter 2015*

#### Exclusions:

*The supplemental studies in Program in Entrepreneurship is not open to those electing the Entrepreneurship minor*

#### Prerequisites

None. However students must be of Sophomore standing or above to declare.

#### Requirements

**Minimum Credits: 9**

A minimum of 9 credits of courses

1. **Core:**
  1. ES 212: Entrepreneurial Business Basics  
or  
UC 270: University Courses Special Topics, *sections titled "Entrepreneurial Business Basics"*
  2. PSYCH 218: Sophomore Seminar in Psychology as a Social Science, *section titled "Entrepreneurial Creativity"*;  
ALA 261: Social Science Topics in ALA, *section titled "Entrepreneurial Creativity"*;  
UC 270: University Courses Special Topics, *section titled "Entrepreneurial Creativity"*;  
or  
ALA/PSYCH 223: Entrepreneurial Creativity
2. **Electives:** minimum 3 credits selected from an approved list. This presents students with an opportunity to explore disciplinary areas in more academic depth related to their entrepreneurial interest.

# Chemistry

The curricula in Chemistry serve those preparing for careers in chemistry, biochemistry, medicine, chemical engineering, pharmacy, and allied fields as well as those seeking a general knowledge of chemistry as part of a liberal arts education. Beyond the first-year courses, there is an emphasis on development of technical knowledge and laboratory experience needed in chemistry and related scientific fields. The undergraduate majors prepare students for work in research and testing laboratories, as well as for business positions in which a chemistry background is desirable. Graduate work is necessary for those planning to do college and university teaching or industrial research.

The Department of Chemistry offers programs leading to :

1. Academic Minors in Biochemistry, [Chemistry](#), [Chemical Physics](#), [Polymer Chemistry](#), and [Chemical Measurement Science](#)
2. a **Bachelor of Science in Chemistry degree** (B.S. Chem. Degree, 124 credits);
3. a *B.S. Chem.* degree with **Honors in Chemistry**. The *Bachelor of Science in Chemistry (B.S. Chem.)* degree requires a more rigorous and more specialized program of study. The program leading to Honors in chemistry is available to qualified students.
4. a Bachelor of Science degree with a [major in Chemical Science](#) (B.S. degree, 120 credits);
5. a Bachelor of Science or Bachelor of Arts in [Interdisciplinary Chemical Sciences](#)
6. a Bachelor of Science or Bachelor of Arts in [Biomolecular Science](#)
7. The department participates in and administers an interdepartmental major [Biochemistry](#).

It is possible to incorporate a teaching certificate into any of these program options.

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

Information about the program leading to the [joint degree with the College of Engineering](#) and [general information about teaching certificate requirements](#) are described elsewhere on this website; departmental requirements for these programs are described below.

**BS Chemistry degree:** This is the most rigorous degree in pure chemistry offered by the department, and should be the degree of choice for students who plan to pursue Ph.D. studies in one of the traditional sub-areas of the field (Organic Chemistry, Inorganic Chemistry, Physical Chemistry, and Analytical Chemistry) or students who plan to seek careers in the Chemical Industry. Students are required to take several lecture and lab courses in all of these core areas and are also required to complete 4 credits (two semesters) of undergraduate research.

**BS Major in Chemical Science:** This degree also exposes students to all sub-disciplines in Chemistry, but provides more flexibility in course selection than the BS Chemistry degree. Undergraduate research is an option, but not a requirement for this degree. The BS Major in Chemical

Sciences is directed towards students who have interdisciplinary interests and are not planning to either attend a traditional graduate program in chemistry or to find immediate employment as a Chemist. Instead, this degree is geared towards students who plan to attend graduate school in an interdisciplinary field where chemical knowledge will be beneficial, and this should also be an attractive option for students that plan to pursue post-graduate degrees in the Health Sciences.

**BS Major in Biochemistry:** This degree program is ideal for students who are interested in learning about life from a chemical perspective. Students will gain a solid foundation in chemistry through traditional sub-discipline courses, but will also take a number of chemistry courses that are focused on the role of chemistry in biological systems. Students will also have the option to take elective courses in molecular biology, and also may pursue undergraduate research in lieu of one of the traditional laboratory courses. Students that pursue this degree will be well equipped for graduate studies in biochemistry, chemical biology, and many other fields of inquiry in the life sciences. The degree will also provide excellent preparation for students intending to pursue professional careers in the Biotechnology Industry as well as the Health Sciences.

**BS Major in Biomolecular Sciences:** The Biomolecular Sciences major is designed to provide students with the core knowledge necessary to understand the chemical principles underpinning biology and the option to explore aspects of the subject of interest to them through a limited set of electives drawn from course offerings in chemistry, biophysics, and molecular, cellular and developmental biology. Biomolecular Sciences is a less extensive major than Biochemistry and is primarily aimed at those planning a career outside of the chemical sciences. Instead, this should be an attractive degree option for students who plan to pursue post-graduate studies in Biomedical or Health Sciences. Students who are intending to pursue graduate studies or an industrial career in biochemistry or related areas are strongly encouraged to elect the Biochemistry major.

**BS Major in Interdisciplinary Chemical Sciences:** The Interdisciplinary Chemical Sciences (ICS) major allows students the flexibility to supplement a core study of chemistry with courses in complementary fields. This major can be effective preparation for graduate study in the sciences, graduate studies in an interdisciplinary area that might benefit from a strong science background, for medical, law, and business schools, or for direct entry into the job market. Because students pursuing the ICS degree have a wide variety of career goals, advising from a chemistry departmental advisor is especially important.

It is strongly recommended that students who are thinking of degrees in chemistry should arrange an appointment with a Chemistry advisory via the online advising system as soon as possible, preferably before the end of the freshman year but certainly before the end of the sophomore year. The online appointment scheduling system can be found here: <http://www.umich.edu/~michchem/undergrad/index.html>.

## Biochemistry (Minor)

The Biochemistry minor provides a broad and general exposure to biochemistry from a chemical sciences perspective.

*Effective Fall 2015*

**Exclusions:**

*The Biochemistry Academic Minor is not open to students concentrating in Biochemistry, Biomolecular Science, Interdisciplinary Chemical Sciences, Chemistry, Cell and Molecular Biology, Biology, General Biology, Neuroscience, Ecology and Evolutionary Biology, Plant Biology, and Microbiology.*

*Students electing a minor within the Department of Chemistry may only elect ONE of the five minors offered by the Department.*

**Advising**

Students wishing to pursue a minor offered by the Chemistry Department must develop a specific plan for its completion in consultation with the Department's designated advisor. [Chemistry](#), [Chemical Physics](#), [Polymer Chemistry](#), and [Chemical Measurement Science](#) minors are arranged in consultation with any Chemistry department advisor, while [Biochemistry](#) minors are arranged in consultation with any Biochemistry advisor. Information about scheduling advising appointments is available from the Department's [website](#).

**Grade Policies**

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

**Prerequisites**

- MATH 115 (or 120) or equivalent
- PHYSICS 135, 140, or equivalent
- BIOLOGY 172

**Requirements****Minimum Credits: 18**

1. *Core:* CHEM 210/211, CHEM 215, CHEM 260 (or CHEM 261 and CHE 330) or CHEM 370, CHEM 351.
2. *Electives:* CHEM 451\* and 452, CHEM 241/242 or CHEM 245/246/247, BIOLOGY 305.

\*Students who have already taken any of the one-term biochemistry courses [MCDB (BIOLOGY) 310 or BIOLCHEM 415] cannot get credit for CHEM 351. The minor will accept these other one-term courses provided the student takes CHEM 451 or 452 as one of their electives.

**Teaching Certificate**

Those seeking a B.S. or B.S. Chem. degree with a teaching certificate in Chemistry must fulfill departmental as well as School of Education requirements. Students who plan to earn a teaching certificate with a teaching major or minor in Chemistry should contact the School of Education Teacher Education Office.

## Biochemistry [B.S.] (Major)

The biochemistry major is intended for students interested in the chemical basis of biological phenomena. This degree program is ideal for students who are interested in learning about life from a chemical perspective. The major is intellectually demanding and is intended to prepare students for further education (graduate school or medicine). Students will gain a solid foundation in chemistry through traditional sub-discipline courses, but will also take a number of chemistry courses that are focused on the role of chemistry in biological systems. Students will also have the option to take elective courses in molecular biology, and also may pursue undergraduate research in lieu of one of the traditional laboratory courses. A B.S. degree in biochemistry is also a useful means of preparing for jobs in academic medical centers, the pharmaceutical industry, and in biotechnology companies. Students that pursue this degree will be well equipped for graduate studies in biochemistry, chemical biology, and many other fields of inquiry in the life sciences. The degree will also provide excellent preparation for students intending to pursue professional careers in the Biotechnology Industry as well as the Health Sciences. Because the major is highly structured, it is essential that prospective majors follow the guidelines set forth below.

*Effective Fall 2015*

**Exclusions:**

*Students who elect a major in Biochemistry may not elect the following majors: Biology, General Biology, Cell and Molecular Biology, CMB:Biomedical Engineering, Ecology and Evolutionary Biology, Microbiology, or Neuroscience. They may also not elect a minor in Biology, or any of the Chemistry minors.*

**Advising**

Students develop a plan for the major in consultation with a program advisor. Those interested in a B.S. degree with a major in Chemical Science (120 credits) or the specialized program leading to the *Bachelor of Science in Chemistry* (124 credits) are urged to consult a program advisor during the freshman and/or sophomore years. Prospective majors are advised that further study in chemistry requires adequate performance in early chemistry courses (preferably B- or better) as well as in the mathematics and physics prerequisites. Students interested in an Honors degree should see the Chemistry Honors advisor. Appointments are scheduled online at <http://lsa.umich.edu/chem/undergraduates/advising.html>. Students interested in the joint program with the College of Engineering should make an appointment with [John Stratman](#) [Academic Advising Center, 1255 Angell Hall, 734.764.0332] and then make an appointment to see a chemistry department advisor online.

**Grade Policies**

The department strongly recommends that a student earn a grade of at least C– in all CHEM courses and mathematics, physics, and biology courses which are prerequisites for subsequent elections. A major program grade point average of at least 2.0 is required; this includes chemistry courses, mathematics and physics prerequisites and advanced electives which are part of a plan for the major. Prerequisites must be taken for a grade. Students must request any change in a grade before the end of the next regular academic term.

**Prerequisites**

- BIOLOGY 171 and 172
- CHEM 210/211, 215

- MATH 115 (or 120), 116 (or 121), 215 (or the equivalent)
- PHYSICS [135/136 or 140/141] and [235/236 or 240/241].

In cases where a student is transferring to Biochemistry from outside the University or is entering later, from another major, the student may be awarded an override for Genetics after completion of only one of either BIOLOGY 171 or 172 where taking the other would be a burden for timely graduation. The override request must come from a Biochemistry department advisor along with the assurance that the student has been informed of the material from BIOLOGY 171 or 172 that he or she needs to review prior to enrolling in the Genetics course.

### Requirements

Must include:

1. **Core:** BIOLOGY 305; CHEM 260, [302 or 303 or 241 or 245], [216 or 242 (or 246 and 247)] 351\*, 352, 451, 452, 453.  
\*Students are strongly encouraged to take CHEM 351 but could substitute this course requirement with MCDB 310 or BIOLCHEM 415.
2. **Electives:** A total of at least six credits chosen from:
  - CHEM 417/BIOPHYS 417/PHYSICS 417: Dynamic Biophysics (3)
  - CHEM 420: Advanced Organic Chemistry (3)
  - CHEM 440/BIOPHYS 440: Biophysics of Disease (3)
  - CHEM 447: Physical Methods of Analysis (3)
  - CHEM 454: Biophysical Chem II: Macromolecular Structure, Dynamics (3)
  - CHEM 455: Special Topics in Biochemistry (3)
  - CHEM 461: Physical Chemistry I (3)
  - CHEM 467/AOSS 467/EARTH 465/ENSCEN 467/ENVIRON 467: Biogeochemical Cycles (3)
  - CHEM 521/BIOPHYS 521: Biophysical Chemistry II (3)
  - CHEM 528/BIOLCHEM 528/MEDCHEM 528: Enzyme Mechanisms, Ligand Binding (2)
  - CHEM 673/BIOLCHEM 673: Enzyme Kinetics (2)
  - AOSS 467/CHEM 467/EARTH 465/ENSCEN 467/ENVIRON 467: Biogeochemical Cycles (3)
  - BIOLCHEM 528/CHEM 528/MEDCHEM 528: Enzyme Mechanisms, Ligand Binding (2)
  - BIOLCHEM 530/CHEMBIO 530: Structural Biology (3)
  - BIOLCHEM 541: Molecular Genetics (3)
  - BIOLCHEM 550: Macromolecular Structure and Function (3)
  - BIOLCHEM 576/PHYSIOL 576/PHARMACOL 576: Signal transduction (1)
  - BIOLCHEM 640: Post-transcriptional Gene Regulation (2)
  - BIOLCHEM 650: Mechanisms of Eukaryotic Gene Expression (3)
  - BIOLCHEM 673/CHEM 673: Enzyme Kinetics (2)
  - BIOLCHEM 675/CDB 675/MICRBIOL 675: Advanced Topics in Protein Trafficking and Localization (2)
  - BIOPHYS 417/CHEM 417/PHYSICS 417: Dynamical Processes in Biophysics (3)
  - BIOPHYS 420: Structural Biology I (3) (W17)
  - BIOPHYS 435: Biophysical Modeling (3)
  - BIOPHYS 440/CHEM 440: Biophysics of Disease (3)
  - BIOPHYS 521/CHEM 521: Biophysical Chemistry II (3)
  - CDB 675/BIOLCHEM 675/MICRBIOL 675: Advanced Topics in Protein Trafficking and Localization (2)
  - CHEMBIO 530/BIOLCHEM 530: Structural Biology (3)
  - EARTH 465/CHEM 467/AOSS 467/ ENSCEN 467/ENVIRON 467: Biogeochemical Cycles (3)
  - ENSCEN 467/CHEM 467/AOSS 467/EARTH 465/ENVIRON 467: Biogeochemical Cycles (3)
  - ENVIRON 467/CHEM 467/AOSS 467/EARTH 465/ENSCEN 467: Biogeochemical Cycles (3)
  - MCDB 405: Molecular Basis of Development (3)
  - MCDB 411: Protein Biochemistry (3)
  - MCDB 417: Chromosome Structure and Function (3)
  - MCDB 418: Endocrinology (3)
  - MCDB 422: Brain Development, Plasticity, and Circuits (3) (W17)
  - MCDB 427: Molecular Biology (3)
  - MCDB 428: Cell Biology (3)
  - MCDB 431: Plant Biochemistry (3)
  - MCDB 435: Intracellular Trafficking (3)
  - MCDB 436: Introductory Immunology (3)
  - MCDB 437: Microbial Communities & Development (3)
  - MCDB 441: Cell Biology of Disease (3)
  - MCDB 471: Advanced Methods in Biochemistry (3)
  - MEDCHEM 528/BIOLCHEM 528/CHEM 528: Enzyme Mechanisms, Ligand Binding (2)
  - MICRBIOL 675/BIOLCHEM 675/CDB 675: Advanced Topics in Protein Trafficking and Localization (2)
  - PHARMACOL 576/BIOLCHEM 576/PHYSIOL 576: Signal transduction (1)
  - PHYSICS 417/CHEM 417/BIOPHYS 417: Dynamic Biophysics (3)

- PHYSIOL 576/BIOLCHEM 576/PHRMACOL 576: Signal transduction (1)

3. **An advanced laboratory or undergraduate research course.** Recommended options for the advanced laboratory course are MCDB 429, CHEM 482 or 483; or four credits of undergraduate research elected as any combination of either CHEM 398 or BIOLCHEM 398, by permission of the department advisor. Students electing the undergraduate research option must execute an extended research project under the supervision of a faculty member who agrees to oversee the project.

### Honors

Qualified students may elect an Honors Plan. This program requires a thesis which describes and analyzes independent experimental work. The research topic and advisor must be approved by the Honors advisor in Biochemistry. Students in this program are expected to maintain an overall grade point average above 3.4 and at least a 3.4 in the field of the major, including prerequisite courses. CHEM 398 (4 credits) and the thesis course, CHEM 498, replaces the requirement for an upper-level laboratory course outlined above.

### Teaching Certificate

Those seeking a B.S. or B.S. Chem. Degree with a teaching certificate in Chemistry must fulfill departmental as well as School of Education requirements. Students who plan to earn a teaching certificate with a teaching major or minor in Chemistry should contact the School of Education Teacher Education Office.

## Biomolecular Science [A.B. or B.S.] (Major)

The major in Biomolecular Science serves pre-health students and others who are not intending to go into science as a career but would benefit from a scientific credential. In addition to medicine, we envisage that this major will be of interest to students planning careers in fields such as education, journalism, science policy, business, law, etc. The Biomolecular Science major provides students with the core knowledge necessary to understand the chemical principles underpinning biology and the option to explore aspects of the subject of interest to them through a set of electives drawn from current course offerings in chemistry, biophysics and MCDB. The major differs from the Biochemistry major in requiring fewer courses and does not have a research component. Biomolecular Sciences is a less extensive major than Biochemistry, and is primarily aimed at those planning a career outside of the chemical sciences. Instead, this should be an attractive degree option for students who plan to pursue post-graduate studies in Biomedical or Health Sciences. Students who are intending to pursue graduate studies or an industrial career in biochemistry or related areas are strongly encouraged to elect the Biochemistry major. The major is structured so that students can readily convert to the BS major in Biochemistry if they decide to do so during the course of their studies.

*Effective Fall 2015*

### Exclusions:

*Students who elect a major in Biochemistry may not elect the following majors: Biology, General Biology; Cell and Molecular Biology; CMB:Biomedical Engineering; Ecology and Evolutionary Biology;*

*Microbiology; or Neuroscience. They may also not elect a minor in Biology, or any of the Chemistry minors.*

### Advising

Students develop a plan for the major in consultation with a program advisor. Those interested in a B.S. degree with a major in Chemical Science (120 credits) or the specialized program leading to the *Bachelor of Science in Chemistry* (124 credits) are urged to consult a program advisor during the freshman and/or sophomore years. Prospective majors are advised that further study in chemistry requires adequate performance in early chemistry courses (preferably B- or better) as well as in the mathematics and physics prerequisites. Students interested in an Honors degree should see the Chemistry Honors advisor.

Appointments are scheduled online at [www.lsa.umich.edu/chem/undergraduate/advising](http://www.lsa.umich.edu/chem/undergraduate/advising). Students interested in the joint program with the College of Engineering should make an appointment with [John Stratman](#) [Academic Advising Center, 1255 Angell Hall, 734.764.0332] and then make an appointment to see a chemistry department advisor online.

### Grade Policies

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

### Prerequisites

- BIOLOGY 171 and 172
- CHEM 130, 125/126; or CHEM 245/246/247 for students with AP credit for CHEM 130, 125/126
- MATH 115 (or 120); (or the equivalent)
- MATH 116 (or 121), STATS 250, STATS 280; or the equivalent
- PHYSICS [135/136 or 140/141] and [235/236 or 240/241] (or the equivalent).

### Requirements

#### Minimum Credits: 25

1. **Core:** CHEM 210/211; CHEM 215; CHEM 260 or 230; CHEM 351\* and 352  
\*Students are strongly encouraged to take CHEM 351 but could substitute this course requirement with MCDB 310 or BIOLCHEM 415.
2. **Electives:** A total of at least 9 credits (three courses) with at least one course at the 400-level:
  1. At least one course chosen from:
    - CHEM 303, 419 (F16), 420, 425 (W17), 436 (W17), 451, 452, 453, 455, 465 (W17)
    - BIOLCHEM 451, 452
  2. At least one course chosen from:



- BIOLOGY 305
- BIOPHYS 420 (W17), 440
- CHEM 440
- MCDB 405, 411, 422, 427, 428, 431, 437
- PHARMACOL 425

## Honors

*Effective Winter 2013*

Students may obtain Honors in Biomolecular Science by successfully completing all courses required for the Biomolecular Science major with an overall GPA of 3.4. In addition, students obtaining Honors must complete one additional upper-level Chemistry elective (chosen in consultation with the department advisor), complete four credits elected over at least two terms of CHEM 398 and write a thesis based on their undergraduate research. Students must register for one credit of CHEM 498 in the term in which they plan to submit their thesis.

## Chemical Measurement Science (Minor)

The Chemical Measurement Science minor provides a concentrated exposure to analytical chemistry that is appropriate across a wide variety of scientific areas.

*Effective Fall 2015*

### Exclusions:

*The Chemical Measurement Science Academic Minor is not open to students concentrating in Biochemistry, Biomolecular Science, Interdisciplinary Chemical Sciences, or Chemistry.*

### Advising

Students wishing to pursue a minor offered by the Chemistry Department must develop a specific plan for its completion in consultation with the Department's designated advisor. [Chemistry](#), [Chemical Physics](#), [Polymer Chemistry](#), and Chemical Measurement Science minors are arranged in consultation with any Chemistry department advisor, while [Biochemistry](#) minors are arranged in consultation with any Biochemistry advisor. Information about scheduling advising appointments is available from the Department's [website](#).

### Grade Policies

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

### Prerequisites

- MATH 115 (or 120), or equivalent;
- PHYSICS 135, 140, or equivalent.

## Requirements

### Minimum Credits: 18

1. *Core:* CHEM 210/211, CHEM 260 or 370, CHEM 241/242, CHEM 447.
2. *Electives:* CHEM 480\*, CHEM 545\*.  
\*Although prerequisites are not enforced, students who elect CHEM 480 or 545 should consider taking, or having taken, advanced physical chemistry beyond the CHEM 260/370 level.

## Chemical Physics (Minor)

The Chemical Physics academic minor provides a concentrated exposure to physical chemical principles.

*Effective Fall 2012*

### Exclusions:

*The Chemical Physics Academic Minor is not open to students concentrating in Biochemistry, Biomolecular Science, Biophysics, Interdisciplinary Chemical Sciences or Chemistry.*

*Students electing a minor within the Department of Chemistry may only elect ONE of the five minors offered by the Department.*

### Advising

Students develop a plan for the major in consultation with a program advisor. Those interested in a B.S. degree with a major in Chemical Science (120 credits) or the specialized program leading to the Bachelor of Science in Chemistry (124 credits) are urged to consult a program advisor during the freshman and/or sophomore years. Prospective majors are advised that further study in chemistry requires adequate performance in early chemistry courses (preferably B- or better) as well as in the mathematics and physics prerequisites. Students interested in an Honors degree should see the Chemistry Honors advisor. Appointments are scheduled online at <http://lsa.umich.edu/chem/undergraduates/advising.html>. Students interested in the joint program with the College of Engineering should make an appointment with [John Stratman](#) [Academic Advising Center, 1255 Angell Hall, 734.764.0332] and then make an appointment to see a chemistry department advisor online.

### Grade Policies

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

### Prerequisites

MATH 215, or equivalent; PHYSICS 235, 240, or equivalent.

### Requirements

#### Minimum Credits: 18

At least 18 credits of courses as follows: CHEM 130,\* CHEM 210/211, CHEM 260 or CHEM 370, CHEM 461, CHEM 462, CHEM 463 or 453.

\*Students who do not place into CHEM 210 are strongly recommended to take CHEM 130. Neither CHEM 130, nor AP credits earned for CHEM 130, count toward the academic minor.

## Chemical Science (B.S.) (Major)

This major exposes students to all sub-disciplines in Chemistry, but provides more flexibility in course selection than the **BS Chemistry** degree. Undergraduate research is an option, but not a requirement for this degree. The major in Chemical Sciences is directed toward students who have interdisciplinary interests and are not planning to either attend a traditional graduate program in chemistry or to find immediate employment as a Chemist. Instead, this degree is geared towards students who plan to attend graduate school in an interdisciplinary field where chemical knowledge will be beneficial, and this should also be an attractive option to students that plan to pursue post-graduate degrees in the Health Sciences.

*Effective Fall 2015*

### Exclusions:

*Students who elect a major in Chemical Science may not elect the following major: Interdisciplinary Chemical Sciences. They may also not elect any of the Chemistry minors.*

### Advising

Students develop a plan for the major in consultation with a program advisor. Those interested in a B.S. degree with a major in Chemical Science (120 credits) or the specialized program leading to the *Bachelor of Science* in Chemistry (124 credits) are urged to consult a program advisor during the freshman and/or sophomore years. Prospective majors are advised that further study in chemistry requires adequate performance in early chemistry courses (preferably B- or better) as well as in the mathematics and physics prerequisites. Students interested in an Honors degree should see the Chemistry Honors advisor. Appointments are scheduled online at <http://lsa.umich.edu/chem/undergraduates/advising.html>. Students interested in the joint program with the College of Engineering should make an appointment with [John Stratman](#) [Academic Advising Center, 1255 Angell Hall, 734.764.0332] and then make an appointment to see a chemistry department advisor online.

### Grade Policies

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

### Prerequisites

- CHEM 210/211, 215, 216, 241/242, and 260
- PHYSICS [135/136 or 140/141] and [235/236 or 240/241]
- MATH 115 (or 120), 116 (or 121), or equivalent sequence.
- CHEM 262; OR MATH 215 and one of MATH 214, 216 or 217, or equivalent

### Requirements

- CHEM 302 or 303
- Two of CHEM 351, 402, 419, 420
- Two of CHEM 447, 461, [463 or 453]
- CHEM 462 (Note: CHEM 462 is to be taken concurrent with CHEM 461, 463 or 452).
- Two of CHEM 399 (2 or 3 credits), 352, 436, 482, 483 to total a minimum of 5 credits. If a student chooses CHEM 399 to meet this requirement, the other course must be in an area of chemistry different from that of the CHEM 399 research.
- Additional 3-credit upper-level elective

### Honors

The B.S. Chem. Degree is the basis of the Honors degree in Chemistry.

### Teaching Certificate

Those seeking a B.S. with a **teaching certificate in Chemistry** must fulfill departmental as well as **School of Education** requirements. Students who plan to earn a teaching certificate with a teaching major or minor in Chemistry should contact the School of Education Office of Academic Services.

## Chemistry (Minor)

The Chemistry minor provides a broad and general exposure to the traditional areas of the chemical sciences.

*Effective Fall 2015*

### Exclusions:

*The Chemistry Academic Minor is not open to students concentrating in Biochemistry, Biomolecular Science, Interdisciplinary Chemical Sciences, Chemistry, Cell and Molecular Biology, Biology, General Biology, Neuroscience, Ecology and Evolutionary Biology, Plant Biology, and Microbiology*

*Students electing a minor within the Department of Chemistry may only elect ONE of the five minors offered by the Department.*

### Advising

Students develop a plan for the major in consultation with a program advisor. Those interested in a B.S. degree with a major in Chemical Science (120 credits) or the specialized program leading to the *Bachelor of Science in Chemistry* (124 credits) are urged to consult a program advisor during the freshman and/or sophomore years. Prospective majors are advised that further study in chemistry requires adequate performance in early chemistry courses (preferably B- or better) as well as in the mathematics and physics prerequisites. Students interested in an Honors degree should see the Chemistry Honors advisor. Appointments are scheduled online at [www.lsa.umich.edu/chem/undergraduate/advising](http://www.lsa.umich.edu/chem/undergraduate/advising). Students interested in the joint program with the College of Engineering should make an appointment with [John Stratman](#) [Academic Advising Center, 1255 Angell Hall, 734.764.0332] and then make an appointment to see a chemistry department advisor online.

### Grade Policies

The department strongly recommends that a student earn a grade of at least C- in all CHEM courses and mathematics, physics, and biology

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

#### Prerequisites

- MATH 115 (or 120), or equivalent;
- PHYSICS 135, 140, or equivalent.

#### Requirements

##### Minimum Credits: 18

1. *Core:* CHEM 130\* & CHEM 210/211.
2. *Electives:* CHEM 215/216, CHEM 241/242, CHEM 260 (or CHEM 261 and CHE 330), CHEM 302 or 303, CHEM 312 (2), CHEM 419 or 420, CHEM 402, CHEM 461, CHEM 482.

\*Students who do not place into CHEM 210 are strongly recommended to take CHEM 130.

#### Constraints

Neither CHEM 130, nor AP credits earned for CHEM 130, count toward the minor.

## Chemistry (BS Chem) (Major)

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

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

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

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

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

A Bachelor of Science in Chemistry degree requires competency in each major area of knowledge and a deep understanding of chemistry. Each student is required also to [achieve competency in the use of the English language](#), to acquire second-year college-level [proficiency in a language other than English](#), to receive credit for an approved course addressing questions on [race and ethnicity](#), and to fulfill

the [quantitative reasoning requirement](#). The B.S.-Chem. degree requires 60 credits of approved courses in the physical and natural sciences and/or mathematics.

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

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

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

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

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

#### Degree Program

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

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

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

#### Chemistry Degree Credit and GPA Requirements

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

#### Special Departmental Policies (effective Fall 2015)

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

the first full term following the term in which the disputed grade was issued.

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

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

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

#### Chemistry Degree Course Requirements

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

#### Honors Plan in Chemistry

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

## Interdisciplinary Chemical Sciences (ICS) [A.B. or B.S.] (Major)

The Interdisciplinary Chemical Sciences (ICS) major allows students the flexibility to supplement a core study of chemistry with courses in complementary fields. The intended audience for the major includes pre-health professional students, students interested in the relationship between science and societal concerns such as the environment or public policy, students interested in fields such as the philosophy of science or history of science where a sound background in a scientific field will provide a deeper level of engagement, and students interested in broadly interdisciplinary sciences not well represented in any individual department. This major can be effective preparation for graduate study in the sciences, graduate studies in an interdisciplinary area that might benefit from a strong science background, for medical, law, and business schools, or for direct entry into the job market.

*Effective Fall 2015*

#### Exclusions:

*May not be elected by those pursuing a major in Chemical Science (or Chemistry), Biochemistry, or Biomolecular Science; or any of the Chemistry minors.*

#### Advising

Students develop a plan for the major in consultation with a program advisor. Advisor approval of the plan for the major will be required when a student declares an ICS major. Those interested in a major in Interdisciplinary Chemical Sciences are urged to consult a program advisor during the freshman and/or sophomore years. Prospective

majors are advised that further study in chemistry requires adequate performance in early chemistry courses (preferably B- or better) as well as in the mathematics and physics prerequisites. Students interested in an Honors degree should see the Chemistry Honors advisor.

Appointments are scheduled online at [www.umich.edu/~michchem/undergrad/index.html](http://www.umich.edu/~michchem/undergrad/index.html)

#### Grade Policies

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

#### Prerequisites

- PHYSICS 135/136 or 140/141 or equivalent
- MATH 115 (or 120) and 116 (or 121), or an equivalent sequence

#### Requirements

##### Minimum Credits: 27

A minimum of 27 credits in Chemistry and 15 credits in cognates approved by the department advisor, as follows:

1. **Core Courses in Chemistry:**
  - CHEM 210/211;
  - CHEM 241/242 or CHEM 245/246/247;
  - CHEM 260;
  - CHEM 302 or 303.
2. **Electives.** 12 credits in CHEM, including at least three courses at the 300-level or above. At least one of these must be a 400-level lecture course.
3. **Theme Focus/Cognates:** 15 credits of course work at the 200-level or above, with at least two courses (6 credits) at the 300-level or above. The plan must be designed with prior approval of a chemistry department advisor.

The Interdisciplinary Chemical Sciences major allows students substantial flexibility to define the thematic focus of their study in cognate courses. The flexibility inherent in the ICS major comes with a responsibility: each student must work closely with an ICS department advisor to select the proper upper level chemistry classes and define a cognate course plan when declaring the ICS major. Possible cognate plans are posted on the department website. Example subplans include a focus on:

- Health and Life Sciences
- Philosophy
- Chemical Physics
- ICS at the interface between science and public policy

#### Honors

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

#### Teaching Certificate

Those seeking a B.S. or B.S. Chem. Degree with a teaching certificate in Chemistry must fulfill departmental as well as School of Education requirements. Students who plan to earn a teaching certificate with a teaching major or minor in Chemistry should contact the School of Education Teacher Education Office.

#### Teaching Certificate

Those seeking a B.S. or B.S. Chem. degree with a teaching certificate in Chemistry must fulfill departmental as well as School of Education requirements. Students who plan to earn a teaching certificate with a teaching major or minor in Chemistry should contact the School of Education Teacher Education Office.

## Polymer Chemistry (Minor)

The Polymer Chemistry minor provides a concentrated exposure to a subspecialization within Materials Science from a chemical sciences perspective.

*Effective Fall 2015*

#### Exclusions:

*The Polymer Chemistry Academic Minor is not open to students concentrating in Biochemistry, Biomolecular Science, Interdisciplinary Chemical Sciences, or Chemistry.*

*Students electing a minor within the Department of Chemistry may only elect **ONE** of the five minors offered by the Department.*

#### Advising

Students wishing to pursue a minor offered by the Chemistry Department must develop a specific plan for its completion in consultation with the Department's designated advisor. [Chemistry](#), [Chemical Physics](#), Polymer Chemistry, and [Chemical Measurement Science](#) minors are arranged in consultation with any Chemistry department advisor, while [Biochemistry](#) minors are arranged in consultation with any Biochemistry advisor. Information about scheduling advising appointments is available from the Department's [website](#).

#### Grade Policies

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

#### Prerequisites

- MATH 115 (or 120), or equivalent;
- PHYSICS 135, 140, or equivalent.

#### Requirements

**Minimum Credits:** 18

At least 18 credits of courses as follows: CHEM 210/211, CHEM 215, CHEM 260 or 370, CHEM 302 or 303, CHEM 436, CHEM 538.

# Classical Studies

## Classical Archaeology (Major)

Classical archaeology is the study of the material culture—the artifacts, sites, monuments, and landscapes—of the ancient Mediterranean world. While the civilizations of Greece and Rome tend to be our focus, other areas, notably Egypt and the Near East, also form part of what we study. Classical archeology deals with all periods from the Paleolithic through the Byzantine.

Courses in Classical Archaeology generally do not require knowledge of Greek or Latin.

*Effective Fall 2016*

### Advising

Students interested in the Department's majors in Greek, Latin, Classical Languages and Literatures, Classical Archaeology, Classical Civilization or Modern Greek major should check with the [Department office](#) for the name of the current advisor. Students interested in obtaining Teacher Certification in Latin should see Professor Deborah Ross.

Major advising for Modern Greek is provided by Professor Vassilios Lambropoulos and Artemis Leontis. Information about scheduling appointments is available from the [department office](#).

The Department recommends that interested students see the department advisors as early as possible in order to plan their programs and avoid unnecessary scheduling conflicts.

Students wishing to pursue a minor in Classical Studies must develop a specific plan for its completion in consultation with the Department's designated advisor. Appointments may be scheduled at 2160 Angell Hall.

### Grade Policies

The department requires that a student earn a grade of at least C– in all *language* courses which are prerequisite for subsequent elections. A student should repeat any *language* course in which a D+ or lower grade is earned and which serves as a prerequisite to other courses which are to be elected. A grade of D+ signifies some achievement but denotes too weak a foundation for subsequent courses.

### Prerequisites

None.

### Requirements

#### Minimum Credits: 27

Requires a minimum of 9 courses (at least 3 credits each) including:

1. two of the following introductory courses: CLARCH 221, 222, 323
2. three upper-level courses (numbered 380 and above) in the field of Classical Archaeology.
3. one course in either Greek or Roman history or civilization.
4. In consultation with an advisor, one upper-level course in a cognate field (e.g., Anthropology, History, History of Art, Near Eastern Studies, Religion, Women's Studies).

5. third-term proficiency in Greek or Latin (usually met by successful completion of GREEK 301 or the equivalent, or LATIN 231 or the equivalent). Students who plan to fulfill this requirement in other ways should speak to the undergraduate advisor.
6. At least one additional relevant course.

Students interested in possibly continuing in the field of Classical Archaeology should discuss their plans with the undergraduate advisor as early and as frequently as possible. Graduate school in Classical Archaeology requires knowledge of both Ancient Greek and Latin and the department advisor can assist in planning a curriculum to include both languages.

### Other Department Policies

#### Field Experience

Recommended but not required for a concentration in Classical Archaeology. There are several opportunities for students to join excavations in the Mediterranean area under the supervision of University of Michigan faculty. Contact the Department to speak with an advisor.

#### Honors

*Effective Date of Honors requirements for the major Fall 2006*

The department offers Honors in each of the six majors. Interested students who have a cumulative grade point average of at least 3.5 should contact their department advisor to discuss an Honors thesis no later than the winter term of their junior year at the latest.

It is the student's responsibility to find a suitable faculty advisor to oversee the thesis project. This project and its components are to be decided collectively by the student and the advisor at the end of the junior year. We encourage students to think creatively about the approach to their research and thesis project. Thesis advisors must sign off on a student's thesis project proposal.

Honors students may receive six credits during their senior year for research culminating in a thesis project by registering for one of the following courses: CLARCH 495, CLCIV 495, GREEK 495 or LATIN 495 depending on the major. At the end of the thesis project, the candidate must offer an oral defense of this work to a committee comprised of the thesis advisor and another faculty member, and present their research findings at the Classical Studies Honors Symposium.

Additional requirements for Honors candidates are specified with each major.

#### Honors Concentration in Classical Archaeology

In addition to the Honors concentration requirements stated above, Honors candidates must satisfy the following:

- 3.4 minimum overall GPA; 3.5 minimum major GPA
- Completion of an Honors thesis and oral defense in coordination with a Classics faculty member
- Completion of eight credits in the second classical language (Greek if the major language is Latin; Latin if the major language is Greek).
- CLCIV 480 *section titled "Research Seminar"* (Fall term)

Students may also elect CLARCH 495 for 1-2 credits in the Fall and 1-3 credits in the Winter, but are not required to do so.

## Classical Archaeology (Minor)

The minor in Classical Archaeology is intended to provide students with the opportunity to explore the archaeology and art of the ancient Mediterranean world. Students will acquire a broad archaeological, historical and cultural overview, before turning to more specific courses dealing with the artistic production and material conditions of Greek and Roman society.

*Effective Fall 2012*

### Exclusions:

*The Academic minor in Classical Archaeology is not open to students with a major in Classical Archaeology or Classical Civilization or any other minor in the Department of Classical Studies.*

### Advising

Students interested in the Department's majors in Greek, Latin, Classical Languages and Literatures, Classical Archaeology, Classical Civilization or Modern Greek major should check with the [Department office](#) for the name of the current advisor. Students interested in obtaining Teacher Certification in Latin should see Professor Deborah Ross.

Major advising for Modern Greek is provided by Professor Vassilios Lambropoulos and Artemis Leontis. Information about scheduling appointments is available from the [department office](#).

The Department recommends that interested students see the department advisors as early as possible in order to plan their programs and avoid unnecessary scheduling conflicts.

Students wishing to pursue a minor in Classical Studies must develop a specific plan for its completion in consultation with the Department's designated advisor. Appointments may be scheduled at 2160 Angell Hall.

### Grade Policies

The department requires that a student earn a grade of at least C– in all language courses which are prerequisite for subsequent elections. A student should repeat any language course in which a D+ or lower grade is earned and which serves as a prerequisite to other courses which are to be elected. A grade of D+ signifies some achievement but denotes too weak a foundation for subsequent courses.

### Prerequisites

CLARCH 221, 222, or 323.

### Requirements

#### Minimum Credits: 16

At least 16 credits of courses, to be chosen from the following three categories as stated:

1. **Introductory courses:** At least one broad introductory course in classical archaeology, other than the course elected to meet the prerequisite (CLARCH 221, 222, or 323).
2. **Civilization or History courses (Greek or Roman):** At least one broad introductory course (CLCIV 101, 102, 302; HISTORY 200, 201).

3. **Upper-Level Classical Archaeology courses:** At least three courses at the 300- or 400-level in CLARCH.

### Special Departmental Policies

The department requires that a student earn a grade of at least C– in all *language* courses which are prerequisite for subsequent elections. A student should repeat any *language* course in which a D+ or lower grade is earned and which serves as a prerequisite to other courses which are to be elected. A grade of D+ signifies some achievement but denotes too weak a foundation for subsequent courses.

## Classical Civilization (Major)

Classical Civilization is an exploration of the life and culture of the ancient Greeks and Romans. Students examine almost every aspect of ancient life – art, architecture, social/political problems and events, and the literature of these cultures. Knowledge of Greek or Latin is not required for this program, but highly recommended.

*Effective Fall 2016*

### Advising

Students interested in the Department's majors in Greek, Latin, Classical Languages and Literatures, Classical Archaeology, Classical Civilization or Modern Greek major should check with the [Department office](#) for the name of the current advisor. Students interested in obtaining Teacher Certification in Latin should see Professor Deborah Ross.

Major advising for Modern Greek is provided by Professor Vassilios Lambropoulos and Artemis Leontis. Information about scheduling appointments is available from the [department office](#).

The Department recommends that interested students see the department advisors as early as possible in order to plan their programs and avoid unnecessary scheduling conflicts.

Students wishing to pursue a minor in Classical Studies must develop a specific plan for its completion in consultation with the Department's designated advisor. Appointments may be scheduled at 2160 Angell Hall.

### Grade Policies

The department requires that a student earn a grade of at least C– in all language courses which are prerequisite for subsequent elections. A student should repeat any language course in which a D+ or lower grade is earned and which serves as a prerequisite to other courses which are to be elected. A grade of D+ signifies some achievement but denotes too weak a foundation for subsequent courses.

### Prerequisites

A minimum of two courses from the following choices, for a total of 8 credits. One course must emphasize Greek culture and the other course must emphasize Roman culture:

- CLCIV 101, 102
- HISTORY 200, 201
- GTBOOKS 191

### Requirements

#### Minimum Credits: 29

Requires a minimum of 9 courses (of at least 3 credits each) for approximately 29 credits including:

1. at least five upper-level courses (minimum 15 credits) in Classical Civilization at the 300– or 400–level, with at least two of these at the 400–level. These courses must include at least one course in literature and one course in religion/philosophy. One course in Latin or Ancient Greek may substitute for one of these Classical Civilization courses.
2. One course (minimum 3 credits) in Classical Archaeology.
3. One course (minimum 3 credits) in Ancient Greek or Roman history. This requirement is separate from any History course that may have been taken as a prerequisite to the major.
4. In consultation with an advisor, at least one upper-level elective cognate course (minimum 3 credits) outside the division of Classical Civilization. LATIN 231, 232, 295 or GREEK 301, 302, 307, 308 may also count to meet this requirement.
5. The "Capstone Seminar," either CLCIV 480 or CLCIV 481. Honors candidates may substitute CLCIV 494 and 495 in place of the Capstone Seminar

### Honors

The department offers Honors in each of the six majors. Interested students who have a cumulative grade point average of at least 3.5 should contact their department advisor to discuss an Honors thesis no later than the winter term of their junior year at the latest.

It is the student's responsibility to find a suitable faculty advisor to oversee the thesis project. This project and its components are to be decided collectively by the student and the advisor at the end of the junior year. We encourage students to think creatively about the approach to their research and thesis project. Thesis advisors must sign off on a student's thesis project proposal.

Honors students may receive six credits during their senior year for research culminating in a thesis project by registering for one of the following courses: CLARCH 495, CLCIV 495, GREEK 495 or LATIN 495 depending on the major. At the end of the thesis project, the candidate must offer an oral defense of this work to a committee comprised of the thesis advisor and another faculty member, and present their research findings at the Classical Studies Honors Symposium.

Additional requirements for Honors candidates are specified with each major.

### Honors Concentration in Classical Civilisations

In addition to the above requirements, students pursuing an Honors major must satisfy the following:

- 3.4 minimum overall GPA; 3.5 minimum major GPA
- Completion of an Honors thesis and oral defense in coordination with a Classics faculty member
- Completion of two additional cognate courses deemed relevant to the thesis
- Fourth term language proficiency in either ancient Greek or Latin.
- CLCIV 480 *section titled "Research Seminar"* (in addition to a CLCIV 480 Capstone Seminar already required for majors)

Students may also elect CLCIV 495 for 1-2 credits in the Fall and 1-3 credits in the Winter but are not required to do so.

## Classical Civilization (Minor)

This academic minor is designed to provide a grounding in ancient Greek and Roman civilization for those unable to elect Classical Civilization as a concentration. It requires students to learn about the history, literature, religion, philosophy, and material culture of ancient Greece and Rome, primarily through the close reading and analysis of original Greek and Latin texts in translation. Confrontation with how people lived and thought in ancient Greece and Rome allows students to gain an understanding of the relation between the ancient and modern world in all its complexity, and gives them valuable intellectual tools to deal with issues in many aspects of modern life. Courses in Classical Civilization also enhance students' ability to think critically and improve their competence in written and oral communication.

*Effective Fall 2012*

### Exclusions:

*The Academic minor in Classical Civilization is not open to students with a concentration in Classical Civilization or any other academic minor in the Department of Classical Studies.*

### Advising

Students interested in the Department's majors in Greek, Latin, Classical Languages and Literatures, Classical Archaeology, Classical Civilization or Modern Greek major should check with the [Department office](#) for the name of the current advisor. Students interested in obtaining Teacher Certification in Latin should see Professor Deborah Ross.

Major advising for Modern Greek is provided by Professor Vassilios Lambropoulos and Artemis Leontis. Information about scheduling appointments is available from the [department office](#).

The Department recommends that interested students see the department advisors as early as possible in order to plan their programs and avoid unnecessary scheduling conflicts.

Students wishing to pursue a minor in Classical Studies must develop a specific plan for its completion in consultation with the Department's designated advisor. Appointments may be scheduled at 2160 Angell Hall.

### Grade Policies

The department requires that a student earn a grade of at least C– in all language courses which are prerequisite for subsequent elections. A student should repeat any language course in which a D+ or lower grade is earned and which serves as a prerequisite to other courses which are to be elected. A grade of D+ signifies some achievement but denotes too weak a foundation for subsequent courses.

### Prerequisites

A minimum of two courses from the following choices, for a total of 8 credits. One course must emphasize Greek culture and the other course must emphasize Roman culture:

- CLCIV 101: The Ancient Greek World
- CLCIV 102: The Ancient Roman World
- HISTORY 200: Greece to 201 B.C.



- HISTORY 201: Rome
- GTBOOKS 191: Great Books

### Requirements

#### Minimum Credits: 15

At least five upper-level courses (minimum 15 credits) in Classical Civilization at the 300 or 400 level, with at least one of these at the 400 level. These courses must include at least one course that satisfies the Upper-Level Writing Requirement or be one of the Capstone Seminars, either CLCIV 480 or CLCIV 481.

One of the 300-level courses in Classical Civilization may be substituted for with any of the following

1. One course (minimum 3 credits) in Classical Archaeology.
2. One course (minimum 3 credits) in Ancient Greek or Roman history (other than one taken as a prerequisite to the academic minor).
3. One course in ancient Greek or Latin at the third-semester level or above.
4. GREEKMOD 325: Athens Present and Past

## Classical Languages and Literatures (Major)

The skills taught in Latin and Greek are useful in many ways. The critical thinking and analytical skills (gleaned from a thorough knowledge of Latin and Greek) will benefit you in any class you take at the university. Students interested in subjects in the sciences and engineering will find the development of these skills invaluable. All students can benefit from improved English skills, particularly those students interested in Communications, Journalism, Law, and all the Humanities. Many students find Latin and Greek so helpful and fascinating that they choose these languages as a major or minor. Learning Latin and Greek is no more difficult than learning Spanish or French. We teach time-saving language learning strategies and skills in a highly structure format. Because these are ancient languages, we focus primarily only on reading texts. Our department provides free "drop-in" tutoring available to all students in the Elementary Latin and Greek courses.

*Effective Fall 2017*

### Advising

Students interested in the Department's majors in Greek, Latin, Classical Languages and Literatures, Classical Archaeology, Classical Civilization or Modern Greek major should check with the [Department office](#) for the name of the current advisor. Students interested in obtaining Teacher Certification in Latin should see Professor Deborah Ross.

Major advising for Modern Greek is provided by Professor Vassilios Lambropoulos and Artemis Leontis. Information about scheduling appointments is available from the [department office](#).

The Department recommends that interested students see the department advisors as early as possible in order to plan their programs and avoid unnecessary scheduling conflicts.

Students wishing to pursue a minor in Classical Studies must develop a specific plan for its completion in consultation with the Department's

designated advisor. Appointments may be scheduled at 2160 Angell Hall.

### Grade Policies

The department requires that a student earn a grade of at least C– in all *language* courses which are prerequisite for subsequent elections. A student should repeat any *language* course in which a D+ or lower grade is earned and which serves as a prerequisite to other courses which are to be elected. A grade of D+ signifies some achievement but denotes too weak a foundation for subsequent courses.

### Prerequisites

None.

### Requirements

#### Minimum Credits: 27

The major requires study of both Greek and Latin; the student chooses one language as the primary language for the purpose of determining requirements. The student takes a minimum of 9 courses (of at least 3 credits each) including:

1. In the primary language at least 3 courses at the 400-level or above.
2. In the secondary language, at least one course at the 400-level or above (300-level courses can't be used in the secondary language).
3. At least 3 additional upper-level language courses (300-level count in the primary language only; courses in the secondary language must be at the 400-level or above).
4. One course selected from CLARCH (221 or 222), CLCIV (101, 102, or 302), or HISTORY (200 or 201).
5. At least one upper-level (300- or 400-level) course in Greek or Roman civilization, archaeology, or history. Minimum of 3 credits.

### Constraints

Three credits of Independent Study (GREEK 499 and LATIN 499) may be used with written approval of the undergraduate advisor.

### Honors

*Effective Date of Honors requirements for the major Fall 2016*

The department offers Honors in each of the six majors. Interested students who have a cumulative grade point average of at least 3.5 should contact their department advisor to discuss an Honors thesis no later than the winter term of their junior year at the latest.

It is the student's responsibility to find a suitable faculty advisor to oversee the thesis project. This project and its components are to be decided collectively by the student and the advisor at the end of the junior year. We encourage students to think creatively about the approach to their research and thesis project. Thesis advisors must sign off on a student's thesis project proposal.

Honors students may receive six credits during their senior year for research culminating in a thesis project by registering for one of the following courses: CLARCH 495, CLCIV 495, GREEK 495 or LATIN 495 depending on the major. At the end of the thesis project, the candidate must offer an oral defense of this work to a committee comprised of

the thesis advisor and another faculty member, and present their research findings at the Classical Studies Honors Symposium.

Additional requirements for Honors candidates are specified with each major.

### Honors Concentration in Classical Civilizations

In addition to the above requirements, students pursuing an Honors major must satisfy the following:

- 3.4 minimum overall GPA; 3.5 minimum major GPA;
- Completion of an Honors thesis and oral defense in coordination with a Classics faculty member
- Completion of one additional Greek or Latin course at the 420-level or above (CLCIV 480 & GREEK/LATIN 495 do not satisfy this requirement)
- CLCIV 480 *section titled "Research Seminar"* (Fall term)

Students may also elect GREEK or LATIN 495 (taken in the primary language) for 1-2 credits in the Fall and 1-3 credits in the Winter but are not required to do so.

## Greek (Ancient) Language and Literature (Major)

The skills taught in Latin and Greek are useful in many ways. The critical thinking and analytical skills (gleaned from a thorough knowledge of Latin and Greek) will benefit you in any class you take at the university. Students interested in subjects in the sciences and engineering will find the development of these skills invaluable. All students can benefit from improved English skills, particularly those students interested in Communications, Journalism, Law, and all the Humanities. Many students find Latin and Greek so helpful and fascinating that they choose these languages as a major or minor. Learning Latin and Greek is no more difficult than learning Spanish or French. We teach time-saving language learning strategies and skills in a highly structured format. As these are ancient languages, we focus primarily only on reading texts. Our department provides free "drop-in" tutoring available to all students in the Elementary Latin and Greek courses.

*Effective Fall 2016*

### Advising

Students interested in the Department's majors in Greek, Latin, Classical Languages and Literatures, Classical Archaeology, Classical Civilization or Modern Greek major should check with the Department office for the name of the current advisor. Students interested in obtaining Teacher Certification in Latin should see Professor Deborah Ross.

Major advising for Modern Greek is provided by Professor Vassilios Lambropoulos and Artemis Leontis. Information about scheduling appointments is available from the department office.

The Department recommends that interested students see the department advisors as early as possible in order to plan their programs and avoid unnecessary scheduling conflicts.

Students wishing to pursue a minor in Classical Studies must develop a specific plan for its completion in consultation with the Department's designated advisor. Appointments may be scheduled at 2160 Angell Hall.

### Grade Policies

The department requires that a student earn a grade of at least C– in all language courses which are prerequisite for subsequent elections. A student should repeat any language course in which a D+ or lower grade is earned and which serves as a prerequisite to other courses which are to be elected. A grade of D+ signifies some achievement but denotes too weak a foundation for subsequent courses.

### Prerequisites

GREEK 101 and 102 or special placement examination.

### Requirements

#### Minimum Credits: 27

Requires a minimum of 9 courses (of at least 3 credits each) including:

1. Seven courses in GREEK at the 300-level or above (at least 4 of these must be at the 400-level or above, usually including GREEK 401 and 402).
2. One introductory course selected from CLARCH 221, CLCIV 101, HISTORY 200.
3. At least one upper-level (300- or 400-level) course in Greek civilization, archaeology, or history. Minimum of 3 credits.

### Constraints

Three credits of Independent Study (GREEK 499) may be used with written approval of the undergraduate advisor

### Honors

*Effective Date of Honors requirements for the major Fall 2006*

The department offers Honors in each of the six majors. Interested students who have a cumulative grade point average of at least 3.5 should contact their department advisor to discuss an Honors thesis no later than the winter term of their junior year at the latest.

It is the student's responsibility to find a suitable faculty advisor to oversee the thesis project. This project and its components are to be decided collectively by the student and the advisor at the end of the junior year. We encourage students to think creatively about the approach to their research and thesis project. Thesis advisors must sign off on a student's thesis project proposal.

Honors students may receive six credits during their senior year for research culminating in a thesis project by registering for one of the following courses: CLARCH 495, CLCIV 495, GREEK 495 or LATIN 495 depending on the major. At the end of the thesis project, the candidate must offer an oral defense of this work to a committee comprised of the thesis advisor and another faculty member, and present their research findings at the Classical Studies Honors Symposium.

Additional requirements for Honors candidates are specified with each major.

*Effective Fall 2016*

In addition to the above requirements, students pursuing an Honors major must satisfy the following:

- 3.4 minimum overall GPA; 3.5 minimum major GPA
- Completion of an Honors thesis and oral defense in coordination with a Classics faculty member

- Completion of one additional Greek course at the 420-level or above (CLCIV 480 & GREEK 495 do not satisfy this requirement)
- CLCIV 480: *Studying Antiquity, section titled "Research Seminar"* (Fall term)

Students may also elect GREEK 495 for 1-2 credits in the Fall and 1-3 credits in the Winter but are not required to do so.

## ***Greek (Ancient) Language and Literature (Minor)***

This minor is designed to provide a basic, but contextual and broad, familiarity with Greek language and literature and the civilization of ancient Greece. More specifically, it requires students to study, at the intermediate and advanced level, Greek and authors writing poetry and/or prose, but at the same time it acquaints the student with the broader historical, social, and cultural content in which these authors lived and worked.

*Effective Winter 2015*

### **Exclusions:**

*The minor in Greek (Ancient) Language and Literature is not open to students with a major in Greek (Ancient) Language and Literature or Classical Languages or any other minor in the Department of Classical Studies.*

### **Advising**

The Department recommends that interested students see the department advisors as early as possible in order to plan their programs and avoid unnecessary scheduling conflicts.

Students wishing to pursue a minor in Classical Studies must develop a specific plan for its completion in consultation with the Department's designated advisor. Appointments may be scheduled at 2160 Angell Hall.

### **Grade Policies**

The department requires that a student earn a grade of at least C– in all *language* courses which are prerequisite for subsequent elections. A student should repeat any *language* course in which a D+ or lower grade is earned and which serves as a prerequisite to other courses which are to be elected. A grade of D+ signifies some achievement but denotes too weak a foundation for subsequent courses.

### **Prerequisites**

GREEK 301, or equivalent as determined by departmental placement examination.

### **Requirements**

**Minimum Credits:** 16

1. **Greek Language and Literature courses:** at least two upper-level courses, above GREEK 301.
2. **Greek Civilization courses:** at least one broad introductory course (CLCIV 101, CLARCH 221, or HISTORY 200).
3. **Upper-Level courses:** at least one upper-level (300- or 400-level) course in Greek civilization, archaeology, or history.

## ***Greek (Modern) Language and Culture (Major)***

The field of Modern Greek consists of the study of global Hellenism over the last five centuries, including its intersection with the classical tradition in other cultures. Students pursuing the major in Modern Greek Studies study modern Hellenism, with a special emphasis on Greece and the Greek communities of the U.S. They also familiarize themselves with Hellenism's ancient and medieval origins. In addition to acquiring an in-depth knowledge of contemporary Greek language, culture, and history, students gain exposure to a number of disciplines and become aware of distinct methods (literary, historical, anthropological, theoretical/philosophical, etc.) used in the study of civilizations. The major requires detailed learning of the language and firm grounding in the knowledge of culture but also offers familiarity with broader issues of our times such as identity, tradition, transnationalism, globalism, and orientalism. Thus the major provides a broad-based liberal arts education and contributes to the development of critical thinking and related skills, both linguistic and interpretive. The major builds on the great strengths of the Department of Classical Studies and the Program in Comparative Literature, as well as on traditional West European, Balkan, and Mediterranean strengths across the College.

Modern Greek courses cover language, literature, and culture, offering a systematic introduction to the Greek world of the last ten centuries, and especially to its contemporary social reality and intellectual achievement. As part of a liberal arts education, they promote the contextual study, both local and global, of contemporary Greek culture, placing particular emphasis on literary studies, critical theory, cultural politics, ethnicity, and diaspora (especially Greek-American). The Modern Greek Studies program offers both a major and a minor; interested students should contact Professor Vassilios Lambropoulos.

*Effective Fall 2016*

### **Advising**

Students interested in the Department's majors in Greek, Latin, Classical Languages and Literatures, Classical Archaeology, Classical Civilization or Modern Greek major should check with the Department office for the name of the current advisor. Students interested in obtaining Teacher Certification in Latin should see Professor Deborah Ross.

Major advising for Modern Greek is provided by Professor Vassilios Lambropoulos and Artemis Leontis. Information about scheduling appointments is available from the department office.

The Department recommends that interested students see the department advisors as early as possible in order to plan their programs and avoid unnecessary scheduling conflicts.

Students wishing to pursue a minor in Classical Studies must develop a specific plan for its completion in consultation with the Department's designated advisor. Appointments may be scheduled at 2160 Angell Hall.

### **Grade Policies**

The department requires that a student earn a grade of at least C– in all language courses which are prerequisite for subsequent elections. A student should repeat any language course in which a D+ or lower grade is earned and which serves as a prerequisite to other courses

which are to be elected. A grade of D+ signifies some achievement but denotes too weak a foundation for subsequent courses.

#### Prerequisites

GREEKMOD 101 and 102 (or MODGREEK 101 and 102).

#### Requirements

**Minimum Credits:** 32

Minimum of ten courses, distributed as follows:

1. **Modern Greek Language:**  
Four (4) terms of Modern Greek language at the 200-level and above: GREEKMOD 201, 202, 301, and 302 (or MODGREEK 201, 202, 301, and 302); (205 and 305 are excluded).
2. **Modern Greek Literature and Culture:**  
Three courses in Modern Greek literature and culture at the 300-level and above.
3. **Structure courses:** Three courses, selected in consultation with, and approved by, the department advisor.

#### Honors

In addition to the above requirements, students who have demonstrated superior ability in the language and serious interest in a project of research, may be admitted to a program of advanced study at the beginning of the senior year, leading to the degree of Bachelor of Arts with Honors in Modern Greek Studies. Students pursuing an Honors major must satisfy the following:

- 3.4 minimum overall GPA; 3.5 minimum major GPA
- Completion of an Honors thesis and oral defense in coordination with a Classics faculty member
- CLCIV 480: Studying Antiquity, *section titled "Research Seminar"* (Fall term)

Students may also elect GREEKMOD 495 for 1-2 credits in the Fall and 1-3 credits in the Winter but are not required to do so.

## Greek (Modern) Language and Culture (Minor)

This minor is designed to provide a basic, but contextual and broad, familiarity with Modern Greek language, literature, and culture. More specifically, it requires students to study, at the intermediate and advanced level, Modern Greek and authors writing poetry and/or prose, but at the same time it acquaints the student with the broader historical, social, and cultural content in which these authors lived and worked. The minor is for students who have a strong interest in contemporary Hellenism and who wish to explore it, under close and careful supervision, in a meaningful fashion.

*Effective Winter 2016*

#### Exclusions:

*The minor in Greek (Modern) Language and Culture is not open to students with a major in Greek (Modern) Language and Culture or any other minor in the Department of Classical Studies.*

#### Advising

Students wishing to pursue a minor in Classical Studies must develop a specific plan for its completion in consultation with the Department's designated advisor. Appointments may be scheduled at 2160 Angell Hall.

#### Grade Policies

The department requires that a student earn a grade of at least C– in all *language* courses which are prerequisite for subsequent elections. A student should repeat any *language* course in which a D+ or lower grade is earned and which serves as a prerequisite to other courses which are to be elected. A grade of D+ signifies some achievement but denotes too weak a foundation for subsequent courses.

#### Prerequisites

GREEKMOD 201 (or MODGREEK 201), or equivalent as determined by departmental placement examination.

#### Requirements

**Minimum Credits:** 16

1. **Modern Greek Language and Literature:** at least two courses in modern Greek language and literature, above GREEKMOD 201 (MODGREEK 201).
2. **Modern Greek culture:** at least one broad introductory course. (GREEKMOD 302 (MODGREEK 302) can be used for this requirement if not used for the language and literature requirement)
3. **Upper-Level courses:** at least two upper-level (300- or 400-level) courses in modern Greek diaspora and travel.

*Substitutions:* Any appropriate course taught in the area of Modern Greek Studies in departments other than Classical Studies must be approved by the program advisor and the Chair in Modern Greek.

## Latin Language and Literature (Major)

The skills taught in Latin and Greek are useful in many ways. The critical thinking and analytical skills (gleaned from a thorough knowledge of Latin and Greek) will benefit you in any class you take at the university. Students interested in subjects in the sciences and engineering will find the development of these skills invaluable. All students can benefit from improved English skills, particularly those students interested in Communications, Journalism, Law, and all the Humanities. Many students find Latin and Greek so helpful and fascinating that they choose these languages as a major or minor. Learning Latin and Greek is no more difficult than learning Spanish or French. We teach time-saving language learning strategies and skills in a highly structure format. As these are ancient languages, we focus primarily only on reading texts. Our department provides free "drop-in" tutoring available to all students in the Elementary Latin and Greek courses.

*Effective Fall 2016*

#### Advising

Students interested in the Department's concentration programs in Greek, Latin, Classical Languages and Literatures, Classical Archaeology, Classical Civilization, or Modern Greek should check with the Department office for the name of the current advisor. Students interested in obtaining a Teacher Certification in Latin should see Professor Deborah Ross.

Major advising for Modern Greek is provided by Professor Vassilios Lambropoulos and Artemis Leontis. Information about scheduling appointments is available from the department office.

The Department recommends that interested students see the department advisors as early as possible in order to plan their programs and avoid unnecessary scheduling conflicts.

#### Grade Policies

The department requires that a student earn a grade of at least C– in all *language* courses which are prerequisite for subsequent elections. A student should repeat any *language* course in which a D+ or lower grade is earned and which serves as a prerequisite to other courses which are to be elected. A grade of D+ signifies some achievement but denotes too weak a foundation for subsequent courses.

#### Prerequisites

One of: LATIN 231 (Honors section) or 232 or 233, or LATIN 295; or RCLANG 295; or special placement examination.

#### Requirements

##### Minimum Credits: 27

Requires a minimum of 9 courses (of at least 3 credits each) including:

1. Seven courses in LATIN at the 300-level or above; at least 4 of these courses must be at the 400-level or above and must include at least one, but not more than two, of the entry level advanced courses (LATIN 401, 402, 409, 410)
2. one introductory course selected from CLARCH 222, CLCIV 102 and 302, or HISTORY 201.
3. At least one upper-level (300- or 400-level) course in Roman civilization, archaeology, or history. Minimum of 3 credits. (300-level must be above 303)

#### Constraints

Three credits of Independent Study (LATIN 499) may be used with written approval of the undergraduate advisor.

#### Honors

##### *Effective Date of Honors requirements for the major Fall 2016*

The department offers Honors in each of the six majors. Interested students who have a cumulative grade point average of at least 3.5 should contact their department advisor to discuss an Honors thesis no later than the winter term of their junior year at the latest.

It is the student's responsibility to find a suitable faculty advisor to oversee the thesis project. This project and its components are to be decided collectively by the student and the advisor at the end of the junior year. We encourage students to think creatively about the approach to their research and thesis project. Thesis advisors must sign off on a student's thesis project proposal.

Honors students may receive six credits during their senior year for research culminating in a thesis project by registering for one of the following courses: CLARCH 495, CLCIV 495, GREEK 495 or LATIN 495 depending on the major. At the end of the thesis project, the candidate must offer an oral defense of this work to a committee comprised of the thesis advisor and another faculty member, and present their research findings at the Classical Studies Honors Symposium.

In addition to the above requirements, students pursuing an Honors major must satisfy the following:

- 3.4 minimum overall GPA; 3.5 minimum major GPA
- Completion of an Honors thesis and oral defense in coordination with a Classics faculty member
- Completion of one additional Latin course at the 420-level or above (CLCIV 480 & LATIN 495 do not satisfy this requirement)
- CLCIV 480: *Studying Antiquity, section titled "Research Seminar"* (Fall term)

Students may also elect LATIN 495 for 1-2 credits in the Fall and 1-3 credits in the Winter but are not required to do so.

#### Teaching Certificate

##### *Effective Fall 2012*

Students interested in a secondary school teaching certificate with a teaching major or minor in Latin must have Professor Deborah Ross approve their program of study.

##### *Teaching Major in Latin.*

Thirty credits which must include:

1. Fifteen credits in LATIN beyond 232, of which 12 must be at the 400-level or above; neither LATIN 499 nor 599 may be counted toward the teaching major without permission of the teaching certificate advisor;
2. One course in Latin composition;
3. One course in Classical Archaeology;
4. One course in Roman history;
5. One course in Linguistics.

##### *Teaching Minor in Latin.*

Twenty credits which must include:

1. Twelve credits in LATIN beyond LATIN 232, of which 9 must be at the 400-level or above. Neither LATIN 499 nor 599 may be counted toward the teaching minor without permission of the teaching certificate advisor;
2. One course in Roman history;
3. One course in Linguistics.

Professor Deborah Ross has the authority to modify departmental requirements for a teaching major or minor in special cases and in keeping with the general requirements for the teaching certificate.

## ***Latin Language and Literature (Minor)***

This minor is designed to provide a basic, but contextual and broad, familiarity with Latin language and literature and the civilization of ancient Rome. More specifically, it requires students to study, at the intermediate and advanced level, Latin and authors writing poetry and/or prose, but at the same time, it acquaints the student with the broader historical, social, and cultural content in which these authors lived and worked.

##### *Effective Winter 2015*

#### Exclusions:

*The Latin Language and Literature minor is not open to students with a major in Classical Languages or any other minor in the Department of Classical Studies.*

### **Advising**

The Department recommends that interested students see the department advisors as early as possible in order to plan their programs and avoid unnecessary scheduling conflicts.

Students wishing to pursue a minor in Classical Studies must develop a specific plan for its completion in consultation with the Department's designated advisor. Appointments may be scheduled at 2160 Angell Hall.

### **Grade Policies**

The department requires that a student earn a grade of at least C– in all *language* courses which are prerequisite for subsequent elections. A student should repeat any *language* course in which a D+ or lower grade is earned and which serves as a prerequisite to other courses which are to be elected. A grade of D+ signifies some achievement but denotes too weak a foundation for subsequent courses.

### **Prerequisites**

LATIN 232, or equivalent as determined by departmental placement examination.

### **Requirements**

**Minimum Credits:** 16

1. **Latin Language and Literature courses:** at least two upper-level courses.
2. **Roman Civilization courses:** at least one broad introductory course (CLCIV 102 or 302, CLARCH 222, or HISTORY 201).
3. **Upper-Level courses:** at least one upper-level (300- or 400-level) course in Roman civilization, archaeology, or history.
4. Another course from numbers 1, 2, or 3 above

# *Climate and Space Sciences and Engineering (College of Engineering)*

Climate and Space Sciences and Engineering spans a broad range of geoscience and space science and engineering disciplines and attempts to understand the complex, coupled Earth and Space system. It is inherently multidisciplinary, involving departments from the College of Engineering and from other colleges.

The fields of climate, space sciences and engineering require scientists and engineers from a wide range of disciplines, including physics, geosciences, aerospace, mechanical, electrical, computer, civil and environmental engineering etc., in addition to meteorologists, climate scientists, space scientists and space engineers. The breadth required of understanding the coupled Earth and Space system and the tools (computer simulations, instruments and spacecraft) used requires graduates with knowledge of the Earth and Space system in order to be better prepared to succeed.

## *Climate and Space Sciences and Engineering (Minor)*

The primary goal of the Climate & Space Minor is to provide exposure to research opportunities in atmospheric, climate and space science and engineering for students who wish to work in the geoscience or space industry but are not majoring in Climate and Space Sciences and Engineering. The secondary goal is to increase awareness of the Climate and Space Sciences and Engineering and the educational and research opportunities within Climate & Space within the College of Engineering as a whole.

The minor will attract and enable undergraduate students throughout the college and university to better prepare them for their chosen profession where knowledge of the climate and space science and engineering is essential for solving global problems.

### Eligibility

To be eligible to declare the minor, students must have:

- Registered no later than the last day to add courses for the semester in which they complete the last courses for the minor,
- Submitted his or her program of study for the minor to the Climate & Space undergraduate advisor.
- Attained a minimum GPA of 2.0 in the designated courses
- Complete the Climate & Space Minor as part of a degree program

### Requirements

#### **Prerequisite coursework (18 credits):**

- MATH 115 (4)
- MATH 116 (4)
- PHYSICS 140/141 (5)
- PHYSICS 240/241 (5)

#### **Required Coursework (9 credits)**

- One of the following four courses:  
SPACE 101 (Introduction to Rocket Science – 3 credits),  
CLIMATE 102 (Extreme Weather – 3 credits),  
SPACE 103 (Introduction to Space Weather – 3 credits)  
CLIMATE 105 (Our Changing Climate – 3 credits)
- CLIMATE 320/SPACE 320 (Earth and Space System Evolution, 3 credits)
- CLIMATE 321/SPACE 321 (Earth and Space System Dynamics, 3 credits)

#### **Core Focus Courses (minimum 6 credits)**

At least two courses from one of the following tracks:

- Meteorology
- Climate Science and Impacts Engineering
- Space Science
- Space Engineering

#### **Meteorology Core**

CLIMATE 350 Atmospheric Thermodynamics 3  
CLIMATE 380 Introduction to Radiative Transfer 3  
CLIMATE 414 Weather Systems\* 3  
CLIMATE 422 Boundary Layer Meteorology\* 4  
CLIMATE 440 Meteorology Analysis Lab\* 4  
CLIMATE 462 Instrumentation 4  
CLIMATE 411 Cloud and Precipitation 3  
CLIMATE 463 Air Pollution Meteorology 3

#### **Climate Science and Impacts Engineering Core**

CLIMATE 350 Atmospheric Thermodynamics 3  
CLIMATE 380 Introduction to Radiative Transfer 3  
CLIMATE 401 Geophysical Fluid Dynamics 3  
CLIMATE 451 Atmospheric Dynamics\* 4  
CLIMATE 467 Biogeochemical Cycles 3  
CLIMATE 466 Carbon Climate Interactions 3  
CLIMATE 473 Climate Physics 3  
CLIMATE 474 Ice Sheets, Glaciers and Climate Change 3  
CLIMATE 480 Climate Change: The Move to Action 3

#### **Space Science Core**

SPACE 370 Solar---Terrestrial Relations 4  
SPACE 478 Space Environment 4  
SPACE 477 Space Weather Modeling 4  
SPACE 495 Upper Atmosphere and Ionosphere 4  
SPACE 462 Instrumentation 4

#### **Space Engineering Core**

SPACE 478 Space Environment 4  
SPACE 405 Engineering Astrophysics 4  
SPACE 462 Instrumentation 4  
SPACE 581 Space Policy 3

\* These courses require a prerequisite within Climate & Space.

To declare your minor, please contact Lindsay Coleman ([colemali@umich.edu](mailto:colemali@umich.edu)), CLaSP Undergraduate Program Advisor to make an appointment or stop in 2237 SRB.



# Communication Studies

Communication Studies focuses on history, content and impact of mass media and new, emerging media. Four crucial reasons for studying mass media:

- Enormous influence on our culture and those around the world
- Role in shaping our individual and collective identities (including our attitudes toward others)
- Centrality to every day life, politics, the economy, and public policy
- Impact on democratic institutions

## Communication Studies (Major)

The mission of the Communication Studies major is to study and teach about the mass media and emerging media: their evolution, their effects, their uses by everyday people, and their regulation and industry practices. We are dedicated to cultivating thorough-going media literacy among our students, and to producing cutting-edge scholarship about the media's impact on individuals and society.

Key elements of the major are:

- Introductory classes taught by world-renowned faculty
- Small, upper-level seminars examining a range of issues like impact of mobile communications, gender and media, media and public opinion, health and media, media and globalization, media effects on individuals and society
- Emphasis on critical thinking and writing
- Combining classroom training with [internship](#) opportunities in a variety of media-related fields
- Opportunity to [study abroad](#) and to participate in our [Honors program](#)
- Opportunity to network with outstanding U-M alumni through our annual Alumni Connection and Entertainment Media Career Forum

*Effective Fall 2017*

### Advising

[Advising](#) appointments are only scheduled online at: [www.lsa.umich.edu/comm/](http://www.lsa.umich.edu/comm/). Students should schedule an advising appointment on the online appointment system with an advisor to learn about major requirements, discuss progress in the major, discuss the process for approval for study abroad or transfer credit, or to complete *Major Release Forms*.

Prospective majors can schedule a pre-major appointment with an advisor anytime, but no later than the second term of the sophomore year is strongly recommended. Most majors continue to see an advisor at least once a year. In any case, students must consult with the undergraduate program coordinator during the first term of their senior year to ensure that required courses will be completed for graduation.

### Prerequisites

Two prerequisite courses (COMM 101 and COMM 102) must be **completed prior to declaration**. COMM 101 and 102 must be completed with a grade of C or higher in each course. Students must declare **no later than second semester junior year**. Additional information can be found on the department website at [www.lsa.umich.edu/comm/undergraduates](http://www.lsa.umich.edu/comm/undergraduates).

### Requirements

#### Minimum Credits: 29

At least 29 credits in Communication Studies. These must include the following:

1. *Communication Studies Upper-Level Writing*: One course from courses numbered COMM 350-399 (4 credits).
2. *Communication Studies Capstone Seminar*: One course from courses numbered COMM 450-499 (3 credits) Only ONE capstone seminar may count toward the major.
3. *Additional Advanced Communication Studies Credits: 22* additional credits from courses numbered COMM 200-449 (not included in 1. and 2. above). NO more than 8 credits may come from 200-level courses. Undergraduate internship (COMM 321) may not be included in this requirement, and no more than three credits of independent reading/research (COMM 322/441/442) and three credits of Honors seminar courses (COMM 491/492) can be used to meet this requirement.

In order to ensure that majors can enroll in required courses, up to 75% of spaces in many 300- and 400-level Communication Studies courses are reserved for declared majors. All spaces in the Capstone seminars are reserved for declared senior Communication Studies students.

### Other Department Policies

An "in-person" declaration briefing is required for students to declare a Communication Studies major. Students cannot declare by email, phone, or fax.

Additionally, the official grades of all prerequisite courses must be recorded on the student's transcript before the student can declare the major.

### Honors

Qualified students are encouraged to undertake an Honors plan. The Honors Program in Communication Studies is available in the senior year to students with a grade point average by their final term of junior year of 3.5 in Communication Studies courses and 3.4 overall. Application and formal admission by the Department are required. Qualified students should contact the department's Honors advisor as early as possible for curricular planning, but applications for the Honors major are required by March 1 of the student's junior year. In addition to satisfying all regular requirements for the major, an Honors major must also include the *Senior Honors Seminars*: COMM 491 and 492, a two-term seminar sequence involving the design and completion of an Honors thesis. COMM 491 may be counted toward the Senior Capstone requirement for the major.

# Comparative Literature

## Comparative Literature (Major)

The major in Comparative Literature provides excellent preparation for professional studies in fields such as law, journalism, and business, as well as preparation for graduate work in the humanities.

Undergraduate majors will establish individualized programs of study in close consultation with a faculty advisor. These programs will offer students the opportunity to increase skills in analytical reading and argumentative writing and to develop an understanding of the interrelationships among several literary traditions. Students who concentrate in comparative literature will acquire training in one or more second languages, study at least two literatures (one of which may be English) in the original languages, and acquaint themselves with some of the essential writings in the theory of literature. Students who choose to write a senior thesis will find it an opportunity for synthesis of earlier course work and further intellectual exploration.

*Effective Fall 2010*

### Advising

Prospective majors should consult the Comparative Literature department advisor as early as possible about developing a challenging and unified interdepartmental program of study.

### Prerequisites

Foreign languages necessary for the study of foreign literature courses at the 300-level.

### Requirements

#### Minimum Credits: 33

- 24 credits: A complementary grouping of literature courses at the 300-level or above in a minimum of two languages, one of which may be English. At least 12 credits are required in each literature.
- If a student chooses to work in English as one of the chosen languages, then a maximum of 18 credits of undergraduate courses in COMPLIT may be applied to the major, of which the maximum number of credits at the 200-level is six. Students may also combine with courses in COMPLIT other courses in the national literature departments and related fields, in consultation with the department advisor. 100-level courses do not count toward the major.
- 3 credits: The senior seminar, COMPLIT 495, is required for all students in the major.
- 6 credits: Comparative Literature electives at the 200 level or above. COMPLIT 496 (3 credits), for those writing an Honors thesis during the last term may be used. (Maximum of 6 credits of 200-level COMPLIT courses may be used in the major.)

Courses will be chosen in consultation with the department advisor in Comparative Literature based on a robust theoretical or organizational principle.

### Honors

To be eligible for an Honors major in Comparative Literature, students should have a cumulative grade point average of at least a 3.4, and a 3.5 grade point average in courses counting toward the major. Students who elect an Honors degree will write an Honors thesis during the final year of their course work.

## Translation Studies (Minor)

The Minor in Translation Studies gives students an opportunity to learn about diverse histories, theories, and practices of translation, through a flexible sequence of courses selected from different departments, including at least one translation course in the Department of Comparative Literature.

The minor is intended for students who would like to build on LSA's language requirement to explore translation between languages; it is also designed with flexibility for students who would like to explore the concept of translation more broadly as an interaction between cultures, media, discourses, and disciplines. The minor can therefore be integrated into diverse programs of study.

The goals of the minor are:

1. to make translation more visible to students in their courses, their communities, and in the world at large;
2. to promote critical and creative reflection on translation, and encourage students to pursue various translation activities;
3. to introduce students to a wide range of academic, creative, and career opportunities related to translation.

While the Minor in Translation Studies is not intended to certify students as professional translators or interpreters, the minor may prepare students to pursue certification or other professional credentials in translation after graduation.

*Effective Winter 2014*

### Advising

The Chair of the Department of Comparative Literature will designate a faculty member to serve as Translation Studies advisor.

During their first meeting, the student and the Translation Studies advisor will devise a plan to satisfy the requirements. Any changes to the plan must be approved by the Translation Studies Adviser, who will provide ongoing advising regarding course selection and planning for the capstone project.

The role of the advisor will be:

1. to provide information for students who are interested in applying for the minor
2. to meet at least once a term with students who are accepted to the minor to discuss progress on their approved course plan
3. to review changes and petitions for approval in individual course plans
4. to help coordinate plans for capstone translation projects.

### Grade Policies

No course will count towards the academic minor in translation studies unless the student receives a grade of C- or better.

### Prerequisites

None.

### Requirements

#### Minimum Credits: 15

During their first meeting, the student and the Translation Studies advisor will devise a plan to satisfy the requirements. Any changes to the plan must be approved by the Translation Studies advisor, who will provide ongoing advising regarding course selection and planning for the capstone project.

The Minor in Translation Studies requires

A minimum of 15 credits of courses, at least two courses in Comparative Literature, and a minimum of 12 credits in upper-level courses.

- **3 credits:** either *COMPLIT 200: Translation Across Disciplines* or *COMPLIT 322: Translating World Literatures*.
- **3 credits:** An upper-level course (taught at the University of Michigan or taken for credit during Study Abroad) that develops skills in a language that the student will use for the capstone translation project. As a rule, an approved course plan for the Minor in Translation Studies will include at least one upper-level course in a second language. However, students interested in translating across different media, technologies, or disciplines may petition for exception to the language rule, by proposing an upper-level course that develops other skills relevant to the capstone translation project.
- **6 credits:** two upper-level courses with a central component on translation (taught in any department at the University of Michigan, or taken for credit during Study Abroad). Students may select courses from a pre-approved list, or propose courses for approval (with an explanation of the translation component and its relevance to their course plan for the Minor).
- **3 credits:** A capstone translation project, completed either while taking *COMPLIT 495: Senior Seminar* (offered every fall) or as a 3-credit Independent Study (in exceptional cases, with prior approval).

# Complex Systems

Over the past twenty years, the ideas and methodologies that underpin the science of complex systems have gained a foothold in the research agendas of many of the world's leading universities. This trend can be explained by the resonance of the complexity paradigm and its focus on core concepts of networks, nonlinear interdependence, adaptation, and diversity to current scientific and social challenges and opportunities. These include climate change, epidemics, ecosystem and financial system robustness, genetic engineering, sustainability science, health sciences and ethnic conflict.

Academic research on nonlinear systems, networks, evolutionary and adaptive systems, emergence, and diversity using mathematics, agent based models, and numerical computation increases with each passing day at think tanks, universities, and laboratories. Most leading graduate programs in physical, biological, and social sciences now include courses that fall under the rubric of complexity science. Many of these courses involve agent based modeling and numerical analysis. At the same time, government and private sector demand for students with skills in modeling, understanding of systems level thinking, and deep understandings of the roles of networks and diversity grows.

## Complex Systems (Minor)

The academic minor in Complex Systems is designed to give students an understanding of the basic concepts of complexity science and to learn how those concepts can be applied within a functional area. It provides an opportunity for concentrators in other departments to take a coherent curriculum in complexity and modeling that complements their major field of study. This academic minor requires foundational courses in complex systems theory and modeling. Students are encouraged to attend research seminars and book club meetings run by CSCS. This will provide an opportunity for undergrads to engage intellectually with students and faculty from a range of fields.

*Effective Fall 2011*

### Advising

The Program does not currently offer a major, although a student may emphasize Complex Systems in the LSA [Individual Major Program](#) (IMP). Students interested in pursuing an Individual Major in Complex Systems should contact the IMP advisor in 1255 Angell Hall.

### Academic Minor Advising

The CSCS Director and core faculty will serve as advisors to students. The CSCS Key Administrator, Mita Gibson, will be the initial point of contact.

### Prerequisites

There will be no formal prerequisites but students who have not taken calculus may find some of the courses difficult. Therefore, previous experience with calculus is strongly recommended.

### Requirements

#### Minimum Credits: 15

Students are required to elect 15 credits (5 courses) including upper-level courses in complex systems within one of four areas of focus: (1) social sciences, (2) biological science, (3) physical science and engineering or (4) complex systems theory and methods.

**Core Courses** (Take 2 of 4). We require students to take at least one of the modeling courses so that students develop the skills necessary for the upper level classes.

- CMLXSYS 270: Introduction to Agent-Based Modeling (ABM)
- CMLXSYS 281 / POLSCI 381: Applied Complex Systems: Emergent Challenges
- CMLXSYS 501: An Introduction to Complex Systems
- CMLXSYS 511: Theory of Complex Systems

**Elective Courses.** Students must take two courses from one section and one course from another section. The final course can be from this list or a course not on this list as long as it is approved by the CSCS Director. Additional cross-cutting courses such as MATH 295: Honors Mathematics I can also be taken as an elective and will count for any of the four areas, with approval from the CSCS Director.

#### 1. Physical Science & Engineering

- BIOINF 463 / MATH 463 / BIOPHYS 463: Mathematical Modeling in Biology
- BIOPHYS 463 / MATH 463 / BIOINF 463: Mathematical Modeling in Biology
- CMLXSYS 470 / PHYSICS 470: Experiments in Nonlinear Dynamics
- CMLXSYS 520 / PHYSICS 580: Empirical Analysis of Nonlinear Systems
- CMLXSYS 535 / PHYSICS 508: Network Theory
- CMLXSYS 541 / PHYSICS 413: Introduction to Nonlinear Dynamics and the Physics of Complexity
- EECS 492: Introduction to Artificial Intelligence
- EECS 587: Parallel Computing
- EECS 598: Special Topics *section titled "Algorithms for Robotics"*
- ENGR 371 / MATH 371: Numerical Methods for Engineers and Scientists
- HONORS 493: College Honors Seminar *section titled "Introduction to Networks"*
- MATH 176: Explorations in Topology and Analysis (Nonlinear Systems and Chaos)
- MATH 371 / ENGR 371: Numerical Methods for Engineers and Scientists
- MATH 463 / BIOINF 463 / BIOPHYS 463: Mathematical Modeling in Biology
- MATH 471: Introduction to Numerical Methods
- PHYSICS 413 / CMLXSYS 541: Introduction to Nonlinear Dynamics and the Physics of Complexity
- PHYSICS 470 / CMLXSYS 470: Experiments in Nonlinear Dynamics

- PHYSICS 508 / CMPLXSYS 535: Network Theory
  - PHYSICS 580 / CMPLXSYS 520: Empirical Analysis of Nonlinear Systems
2. **Social Science**
- CMPLXSYS 250: Social Systems & Energy
  - CMPLXSYS 260 / SOC 260: Tipping Points, Bandwagons and Cascades: From Individual Behavior to Social Dynamics
  - EECS 594: Introduction to Adaptive Systems *section titled "Complexity & Emergence"*
  - HONORS 493: College Honors Seminar *section titled "Complexity & Emergence"*
  - MATH 217: Linear Algebra
  - MATH 425 / STATS 425: Introduction to Probability
  - NRE 550: Systems Thinking for Sustainable Development
  - POLSCI 598: Mathematics for Political Scientists
  - POLSCI 793: Methods Seminar *section titled "Advanced Modeling in Political Science"*
  - PSYCH 447: Current Topics in Cognition and Perception *section titled "Complexity & Emergence"*
  - PUBPOL 513: Calculus for Social Scientists
  - SOC 260 / CMPLXSYS 260: Tipping Points, Bandwagons and Cascades: From Individual Behavior to Social Dynamics
  - STATS 425 / MATH 425: Introduction to Probability
  - STRATEGY 566: Systems Thinking for Sustainable Development
3. **Biological Science**
- BIOINF 800: Special Topics *section titled "Computation and Neuroscience"*
  - BIOINF 463 / MATH 463 / BIOPHYS 463: Mathematical Modeling in Biology
  - BIOPHYS 463 / MATH 463 / BIOINF 463: Mathematical Modeling in Biology
  - CMPLXSYS 430 Modeling Infectious Diseases
  - CMPLXSYS 510 / MATH 550: Introduction to Adaptive Systems *section titled "Introduction to Dynamics for Biocomplexity"*
  - EEB 315 / ENVIRON 315: The Ecology and Evolution of Infectious Diseases
  - EEB 401: Advanced Topics in Biology *section titled "Interrogating Data with Models"*
  - EEB 466 / MATH 466: Mathematical Ecology
  - ENVIRON 315 / EEB 315: The Ecology and Evolution of Infectious Diseases
  - MATH 463 / BIOINF 463 / BIOPHYS 463: Mathematical Modeling in Biology
  - MATH 466 / EEB 466: Mathematical Ecology
- MATH 550 / CMPLXSYS 510: Introduction to Adaptive Systems *section titled "Introduction to Dynamics for Biocomplexity"*
  - MATH 559: Selected Topics in Applied Mathematics *section titled "Computation and Neuroscience"*
  - MICRBIOL 510: Mathematical Modeling for Infectious Diseases
4. **Theory & Methods**
- BIOINF 800: Special Topics *section titled "Computation and Neuroscience"*
  - CMPLXSYS 501: Basic Readings
  - CMPLXSYS 520 / PHYSICS 580 / MATH 552: Empirical Analysis of Nonlinear Systems
  - CMPLXSYS 530: Computer Modeling of Complex Systems
  - CMPLXSYS 531: Basic Computing Skills for Programming Agent Based Models (ABM)
  - EECS 594: Introduction to Adaptive Systems *section titled "Complexity & Emergence"*
  - HONORS 493: College Honors Seminar *sections titled "Complexity & Emergence" and "Introduction to Networks"*
  - MATH 425 / STATS 425: Introduction to Probability
  - MATH 462: Mathematical Models
  - MATH 552 / CMPLXSYS 520 / PHYSICS 580: Empirical Analysis of Nonlinear Systems
  - MATH 559: Selected Topics in Applied Mathematics *section titled "Computation and Neuroscience"*
  - PHYSICS 580 / CMPLXSYS 520 / MATH 552: Empirical Analysis of Nonlinear Systems
  - PSYCH 447: Current Topics in Cognition and Perception *section titled "Complexity & Emergence"*
  - STATS 425 / MATH 425: Introduction to Probability

# Earth and Environmental Sciences

From our field camp in Wyoming to research on campus and across the world, Michigan students have opportunities to explore the Earth and environmental sciences in engaging ways. The Department of Earth and Environmental Sciences offers:

- an Earth and Environmental Sciences Major
- optional sub-plans within the major: (1) Earth Sciences, (2) Environmental Sciences
- an Honors Plan
- a Teacher's Certificate Program, for prospective science teachers who are candidates for a secondary teaching certificate in earth science and general science; and,
- Academic minors in Earth Sciences, Environmental Geology, Geology, Oceanography, and Paleontology

## Earth and Environmental Sciences (Major)

The Earth and Environmental Sciences major trains students to receive a broad foundation in the natural sciences, to understand how the Earth system works, and to tackle grand challenges facing our planet and society such as climate, energy, mineral resources, natural hazards, water, pollution, and sustainability.

Students are required to learn material from several core areas representing physical, chemical, and biological aspects of the geosciences. The program also includes a field requirement that takes students off campus to study and apply their knowledge. Within the Earth and Environmental Sciences major students may elect a sub-plan in (1) Earth Sciences or (2) Environmental Sciences. These sub-plans are optional and are designed for students who intend to pursue graduate studies and/or a career in the Earth and environmental sciences. Finally, students are encouraged, but not required, to complete a specialization in a subject area of their choosing. Students in this program of study can earn either a Bachelor of Arts or Bachelor of Science degree. A Bachelor of Science degree requires students complete at least 60 credits in science and math courses.

*Effective Fall 2017*

### Advising

A plan for the major in the Department of Earth and Environmental Sciences is developed in consultation with a department advisor. A proposed plan *must be approved* in its entirety by the appropriate advisor prior to registration for the first term of major. Thereafter, progress through the plan and future elections *must be reviewed, and approved in advance*, whenever a change is proposed and in any case no less frequently than at the beginning of each new academic year of residence. Certification must also be obtained from an advisor, on an official *LSA Major Release Form*, immediately prior to submission of the application for the degree.

Information about appointments with department advisors is available on the web at: [lsa.umich.edu/earth/undergraduate-students.html](http://lsa.umich.edu/earth/undergraduate-students.html)

Students wishing to pursue a minor in the department must develop a specific plan for its completion in consultation with the department's

designated advisor. Appointments are scheduled online [lsa.umich.edu/earth/undergraduate-students.html](http://lsa.umich.edu/earth/undergraduate-students.html)

### Prerequisites

Prerequisites to the major provide students with background knowledge in topics related to Earth and environmental science and in core natural science areas. These should be completed as soon as possible.

1. **Earth and Environmental Science Requirements.**  
Choose one from each of the following two categories:
  - Category I: An introductory geoscience course with a laboratory (EARTH 116, 119&118, 120, or 201), or an introductory geosciences course without a laboratory (EARTH 119, 284 or 205+206) combined with a laboratory course (EARTH 118 or 207).
  - Category II: An introductory course in global change, oceanography, or environmental science (EARTH 171, 222&223, 201, 202, 284 or 320).
2. MATH 115 (Calculus I) or equivalent
3. Choose at least 2 out of the following 4 options for chemistry, physics, and biology courses:
  - Option I: CHEM 130: General Chemistry with CHEM 125+126 (lab + discussion) highly recommended
  - Option II: PHYSICS 140 and 141: Physics I and lab
  - Option III: BIOLOGY 162, 171, or 172: Introductory Cell Biology or Ecology
  - Option IV: Choose one from:
    - MATH 116: Calculus II,
    - MATH 214 or 216: Differential Equations,
    - CHEM 230: Physical Chemistry or 210/211: Organic Chemistry and Lab, or
    - PHYSICS 240/241: Physics II and Lab.

### Recommended Prerequisites

Recommended introductory field experience. Students are encouraged in their first year of declaring the major to participate in a departmental international or domestic field trip over spring break or summer.

Students interested in continuing on to graduate school or professional work in the geosciences are encouraged to choose their prerequisites in consultation with a department advisor. See also the other recommendations listed below.

### Requirements

#### Minimum Credits: 30

The major requires a minimum of 30 credits of coursework not including prerequisites. Students who choose a sub-plan will complete a minimum of 38 credits.

Students may pursue one of three options within the major:

- (1) an Earth and Environmental Sciences major with no sub-plan;
- (2) an Earth and Environmental Sciences major with a sub-plan in Earth Sciences
- (3) an Earth and Environmental Sciences major with a sub-plan in Environmental Sciences

The requirements for each option are described below:

**Earth and Environmental Sciences major with no sub-plan:** this option is intended to provide flexibility and is suitable for students interested in careers in environmental law, policy, economics, business, sustainability, and related fields.

#### 1. Core Courses

Core courses in the Earth and Environmental Sciences Major are designed to provide students with training in the physical, chemical, and biologic processes relevant to the present form, and evolution of the Earth.

Students should choose four courses from the following eight **Core Course Options**:

- EARTH 305: Earth's Surface and Sediments
- EARTH 313: Geobiology
- EARTH 314: Global and Applied Geophysics
- EARTH 315: Earth Materials
- EARTH 325: Environmental Geochemistry
- EARTH 331: Climate and Climate Change
- EARTH 351: Earth Structure
- EARTH 442 Earth Surface Processes and Soils

#### 2. Field Experience Requirement

A fundamental aspect of studying the Earth and environmental sciences is exposure to hands-on approaches for data collection and problem-solving. For this reason, the Earth and Environmental Sciences major requires students to complete a field-based course at Camp Davis, Wyoming, where students learn how to collect and interpret Earth and Environmental science data.

Students must choose one course from EARTH 450 (or prior to Spring 2014, EARTH 341) or EARTH 440. Students interested in completing EARTH 440 are strongly encouraged to complete EARTH 305 and 351 prior to taking EARTH 440. Students who take EARTH 450 must take either EARTH 119&118 or 116 or 120 AND EARTH 201 or 202 or 284, or ENVIRON 209 or 202 or 281 or 284, or BIOLOGY 281. Students who take EARTH 450 are also strongly encouraged to take EARTH 442 prior to taking EARTH 450. Students interested in a career in Oceanography may elect to take, with approval from a department advisor, a marine based field course.

#### 3. General Electives

Nine EARTH credits at the 300 or higher level. Earth and Environmental Sciences majors are required to take these additional EARTH credits at the 300 or higher level to develop additional expertise in a specialization or area of their choosing. Students may wish to consider a specialization in an area listed in the core courses, or create their own specialization in consultation with a department advisor.

Remaining core courses listed above may be elected as well as other department course offerings. Students interested in graduate school and/or professional employment in the geosciences are encouraged to take as many 400-level courses as possible.

A maximum of one credit of research or independent study (EARTH 299, 489, 490, 494, 498, 499) can be used for these electives.

#### 4. Upper Level Writing Requirement

The College requires that every student satisfy an upper-level writing requirement before graduation. Students in concentration programs in the department must satisfy this requirement by completion of EARTH 333 or 380 or by a program of writing that is explained in detail on the departmental web page: [www.lsa.umich.edu/earth/undergraduate](http://www.lsa.umich.edu/earth/undergraduate).

**Earth and Environmental Sciences major with an Earth Sciences sub-plan:** This option is intended to provide a strong foundation in core areas of the Earth sciences and skills and experience in the collection and interpretation of data, and is suitable for students who are interested in pursuing a career and/or graduate studies in geology, geophysics, and geochemistry and related fields.

#### 1. Core Courses

Core courses in the Earth Sciences sub-plan are designed to provide students with training in the physical, chemical, and geological processes relevant to the present form and evolution of the Earth. Recognizing that core areas of the environmental sciences are also central to sub-disciplines in the Earth sciences, the Earth Sciences sub-plan also requires at least one core course from the Environmental Sciences sub-plan. Finally, an upper-level core course builds on knowledge and concepts from the core

Students take all four of the following **Earth Sciences Core Courses**:

- EARTH 305 Earth's Surface and Sediments
- EARTH 314 Global and Applied Geophysics
- EARTH 315 Earth Materials
- EARTH 351 Earth Structure

Students choose one of the following **Environmental Sciences Core Courses**:

- EARTH 313 Geobiology
- EARTH 325 Environmental Geochemistry
- EARTH 331 Climate and Climate Change
- EARTH 442 Earth Surface Processes and Soils

Plus the following **Upper-Level Core Course**:

- EARTH 412 Geochemistry of the Solid Earth

#### 2. Upper-Level Analytical Methods

Skills in the collection, analysis, and interpretation of data are critical to the Earth Sciences. For this reason, the Earth Sciences sub-plan requires students to complete one of the following **Upper-Level Analytical Methods Courses**:

- EARTH 408 Introduction to GIS

- EARTH 444 Analytical Paleobiology
- EARTH 455 Determinative Methods
- EARTH 468 Data and Models

### 3. Field Experience Requirement

- EARTH 440 Geology Field Methods (Students interested in completing EARTH 440 are strongly encouraged to complete EARTH 305 and 351 prior to taking EARTH 440.)

### 4. Earth Sciences Electives

At least one of the following:

- EARTH 344 Sustainable and Fossil Energy
- EARTH 415 Economic Geology
- EARTH 418&419 Paleontology
- EARTH 420 Earth Physics
- EARTH 422 Principles of Geochemistry
- EARTH 428 Mineral Surfaces
- EARTH 429 Computational Mineralogy
- EARTH 432 Plant Paleobiology
- EARTH 437 Evolution of Vertebrates
- EARTH 442 Earth Surface Processes and Soils
- EARTH 449 Marine Geology
- EARTH 467 Stratigraphy and Basin Analysis
- EARTH 477 Hydrogeology
- EARTH 483 Seismology

### 5. Upper Level Writing Requirement

The College requires that every student satisfy an upper-level writing requirement before graduation. Students in concentration programs in the department must satisfy this requirement by completion of EARTH 333 or 380 or by a program of writing that is explained in detail on the departmental web page: [www.lsa.umich.edu/earth/undergraduate](http://www.lsa.umich.edu/earth/undergraduate).

**Earth and Environmental Sciences major with an Environmental Sciences sub-plan:** This option is intended to provide a strong foundation in core areas of the environmental sciences and skills and experience in the collection and interpretation of data, and is suitable for students who are interested in pursuing a career and/or graduate studies in climatology, hydrology, oceanography, environmental chemistry, and related fields.

#### 1. Core Courses

Core courses in the Environmental Sciences sub-plan are designed to provide students with a foundation in the physical, chemical, biological, and geological processes relevant to environmental processes. Recognizing that core areas of the Earth sciences are also central to sub-disciplines in the environmental sciences, the Environmental Sciences sub-plan also requires at least one core course from the Earth Sciences sub-plan.

Students take all four of the following **Environmental Sciences Core Courses**:

- EARTH 313 Geobiology
- EARTH 325 Environmental Geochemistry
- EARTH 331 Climate and Climate Change
- EARTH 442 Earth Surface Processes and Soils

Students choose one of the following **Earth Sciences Core Courses**:

- EARTH 305 Earth's Surface and Sediments
- EARTH 314 Global and Applied Geophysics
- EARTH 315 Earth Materials
- EARTH 351 Earth Structure

### 2. Sustainability Course

Human activity exerts strong influence on the environment and is now an integral part of the Earth system. Hence, a course that focuses on human issues surrounding resources, economics, sustainability, and environment is required for the Environmental Sciences sub-plan. Students choose one of the following:

- EARTH 333 Inexhaustible Seas? Marine Resources and Environmental Issues
- EARTH 380 Mineral Resources, Economics, and the Environment

### 3. Upper-Level Analytical Methods

Skills in the collection, analysis, and interpretation of data are critical to the environmental sciences. For this reason, the Environmental Sciences sub-plan requires students to complete one of the following **Upper-Level Analytical Methods Courses**:

- EARTH 408 Introduction to GIS
- EARTH 455 Determinative Methods
- EARTH 468 Data and Models

### 4. Field Experience Requirement

- EARTH 450 Ecosystem Science (Students who take EARTH 450 must take either EARTH 119&118 or 116 or 120 AND EARTH 201 or 202 or 284, or ENVIRON 209 or 202 or 281 or 284, or BIOLOGY 281. Students who take EARTH 450 are also strongly encouraged to take EARTH 442 prior to taking EARTH 450.)

### 5. Environmental Sciences Electives

At least two of the following:

- EARTH 344 Sustainable and Fossil Energy
- EARTH 413 Geomicrobiology
- EARTH 421 Introduction to Physical Oceanography
- EARTH 428 Mineral Surfaces
- EARTH 429 Computational Mineralogy



- EARTH 431 Terrestrial Biomes
- EARTH 446 Paleoclimate
- EARTH 452 Paleoceanography
- EARTH 465 Biogeochemistry
- EARTH 477 Hydrogeology
- EARTH 478 Geochemistry of Natural Waters

## 6. Upper Level Writing Requirement

The College requires that every student satisfy an upper-level writing requirement before graduation. Students in concentration programs in the department must satisfy this requirement by completion of EARTH 333 or 380 or by a program of writing that is explained in detail on the departmental web page: [www.lsa.umich.edu/earth/undergraduate](http://www.lsa.umich.edu/earth/undergraduate).

### Sample specializations

Students who choose the Earth and Environmental Sciences major are encouraged to build a specialization that suits their own interests by taking additional upper-level courses in the department. They may elect to use additional relevant courses from other departments as well. Students should build their specialization in close consultation with their department advisor.

The following includes titles of a few example specializations that students may consider pursuing. Recommended courses associated with each of these specializations are available on the department website. These are only examples, and other specializations may be considered in consultation with a department advisor.

- Geology
- Environmental Geoscience
- Energy and Mineral Resources
- Geochemistry
- Geophysics
- Oceanography
- Paleontology and Geobiology

### Other recommendations

Students interested in graduate school or a career in geological and environmental sciences, or oceanography, are strongly encouraged to plan their curriculum in close consultation with an Earth and Environmental Sciences department advisor as soon as possible. Example curricula are given below.

Recommended courses for students interested in graduate study or professional employment in **Geological Sciences** include:

- MATH 116: Calculus II, MATH 214 or 216: Differential equations.
- CHEM 230: Physical Chemistry or CHEM 210 and 211: Organic Chemistry
- PHYSICS 240 and 241: Physics II and Lab
- EARTH 305, 310, 313, 315, 351, 418, 420, 422, 440

- Completion of a senior or Honors thesis after at least two semesters of research with faculty in the department.

Recommended courses for students interested in graduate study or professional employment in **Environmental Geology** include:

- MATH 116: Calculus II, MATH 214 or 216: Differential equations.
- CHEM 230: Physical Chemistry or CHEM 210 and 211: Organic Chemistry
- PHYSICS 240 and 241: Physics II and Lab, or BIOLOGY 162, 171, or 172.
- EARTH 305, 315, 325, 380, 420, 442, 450 (or prior to Spring 2014, EARTH 341), 465, 477.
- Completion of a senior or Honors thesis after at least two semesters of research with faculty in the department.

Recommended courses for students interested in graduate study or professional employment in **Oceanography** include:

- MATH 116: Calculus II, and one of MATH 214, 215, or 216: Differential equations
- STATS 250
- CHEM 230: Physical Chemistry or CHEM 210 and 211: Organic Chemistry
- PHYSICS 240 and 241: Physics II and Lab
- EARTH 222 and 223, 305, 310, 320, 321, 325 or 422, 409, 420, 449, 452
- Completion of a senior or Honors thesis after at least two semesters of research with faculty in the department.

### Honors

Effective: Winter 2012

The Honors plan consists of a series of special academic opportunities supplementary to any of the regular majors. The Honors plan is tailored to fit the needs and interests of individual students. Honors students in the Department of Earth and Environmental Sciences should complete EARTH 490 for one credit during two of the four terms of the junior and senior years for:

1. reading and discussion of the professional literature;
2. library research and reporting on a special research problem;
3. research as an assistant to a faculty member or as part of a graduate seminar; or
4. individual research and reporting on a problem or graduate seminar.

A thesis is required to complete the program. The Honors plan offers well-qualified students an opportunity to increase the breadth and depth of their undergraduate experience. To be eligible for the Honors plan, students must have at least: (1) a 3.4 grade point average in EARTH courses elected in the department; and (2) a cumulative grade point average of at least 3.4 at the time of acceptance. Students admitted to the Honors plan must complete the requirements for their principal major program.

Ideally, the selection of candidates for Honors plan is made at the beginning of the junior year, but qualified students may be admitted to the plan as late as the end of the junior year. *Interested students should contact the departmental office for referral to the Honors advisor, 2534 C.C. Little Building, (734) 764-1435.*

### Teaching Certificate

The Department of Earth and Environmental Sciences offers prospective secondary school science teachers an opportunity to earn a bachelor's degree from the College with a major in the department while satisfying the requirements for a provisional secondary school teaching certificate with a teaching major in earth science or general science. An outline with specific information about the teaching major and minor in earth science, general science, and the other teaching certificate requirements should be obtained from the School of Education Office of Academic Services. Interested students should consult the teaching certificate advisor as early as possible.

## Earth Sciences (Minor)

The Earth Sciences minor is designed to give students a broad introduction to geology, oceanography and related sciences. It allows a wide selection of courses to suit both general and specific interests. The Earth Sciences minor would be particularly suitable for non-science majors, such as pre-law, business, economics, history, and English.

*Effective Winter 2012*

### Exclusions:

*A minor in Earth Sciences is not open to students with any major or any other minor in the Department of Earth and Environmental Sciences.*

### Advising

Students wishing to pursue a minor in the Department of Earth and Environmental Sciences must develop a specific plan for its completion in consultation with the department's designated advisor.

Appointments are scheduled online [www.lsa.umich.edu/earth/undergraduate](http://www.lsa.umich.edu/earth/undergraduate)

### Prerequisites

None.

### Requirements

#### Minimum Credits: 15

- One introductory Geology course** must be taken from one of the following two groups:
  - Group 1. Courses with laboratory: EARTH 116, 118&119, 120, 201, 222&223.
  - Group 2. Courses without laboratory (EARTH 119, 125, 135, 175, 205+206, 284)
- One General Interest course.** Up to four additional credits may be elected from 200-level and up courses in Earth and Environmental Sciences, including 200-level courses listed in Category 1 (above).
- Upper-level Electives:** The remainder of the credits for the minor must be elected from 300- and 400-level courses in Earth and Environmental Sciences.

## Environmental Geology (Minor)

The Environmental Geology minor is designed to give students a broad introduction to processes shaping the Earth's surface, its physical and biochemical environment, and potential response to anthropogenic influences. Because society and the Earth's surface environment are intimately linked, students with interests in pre-law or majors such as business, economics, history, and English may find the minor in Environmental Geology an attractive complement to their training. As well, students concentrating in other areas of the Natural Sciences may find the minor in Environmental Geology a way to diversify their background and apply fundamental scientific principles in an interdisciplinary way. Note that by LSA rules, only one course may be elected in common to a minor and a major.

*Effective Fall 2014*

### Exclusions:

*Not open to students electing the minor in Earth Sciences.*

### Advising

A plan for the major in the Department of Earth and Environmental Sciences is developed in consultation with a department advisor. A proposed plan must be approved in its entirety by the appropriate advisor prior to registration for the first term of major. Thereafter, progress through the plan and future elections must be reviewed, and approved in advance, whenever a change is proposed and in any case no less frequently than at the beginning of each new academic year of residence. Certification must also be obtained from an advisor, on an official LSA Major Release Form, immediately prior to submission of the application for the degree.

Information about appointments with department advisors is available on the web at: [lsa.umich.edu/earth/undergraduate-students.html](http://lsa.umich.edu/earth/undergraduate-students.html)

Students wishing to pursue a minor in the department must develop a specific plan for its completion in consultation with the department's designated advisor. Appointments are scheduled online [lsa.umich.edu/earth/undergraduate-students.html](http://lsa.umich.edu/earth/undergraduate-students.html)

### Prerequisites

None.

### Requirements

#### Minimum Credits: 15

- One introductory Geology course** must be taken from one of the following two groups:
  - Group 1. Courses with laboratory: EARTH 116, 118&119, 120, 201, 202 (as of Fall 2017).
  - Group 2. Courses without laboratory: EARTH 119, 135 (prior to Fall 2017), 205&206.
- Core courses:** EARTH 284 and 380 are required.
- Elective courses:** EARTH 325, 442, 444, 450, 477, 478, or permission of advisor.

## Geology (Minor)

The Geology minor is designed to give students a specialization in geology, which includes the physics and chemistry of the solid Earth. The minor is suitable for students who wish to add a specialization in geology to their natural science degree.

*Effective Winter 2013*

**Advising**

Students wishing to pursue a minor in the department must develop a specific plan for its completion in consultation with the department's designated advisor. Appointments are scheduled online [www.lsa.umich.edu/earth/undergraduate](http://www.lsa.umich.edu/earth/undergraduate)

**Prerequisites**

None.

**Requirements****Minimum Credits:** 15

1. **An introductory geology course:** EARTH 116, 119, 120, or 205+206. Students who elect EARTH 119, 120, or 205+206 are strongly encouraged to also enroll in EARTH 118.
2. **Core course.** Choose one or more of: EARTH 305, 310, 314, 315, 351.
3. **Electives:** 311, 380, 417, 418/419, 420, 422, 436 (2 credits max), 440, 442, 449, 467, 483, 494 (one credit max)

## Oceanography (Minor)

The minor in Oceanography is designed to provide students with broad introductions to oceanography, to the geological processes active on the seafloor and the seashore, and to the geological evolution of the ocean basins and their sediment records of past climates. Note that by LSA rules, only one course may be elected in common to a minor and a major.

*Effective Winter 2015*

**Exclusions:**

*Not open to students electing the minor in Earth Sciences.*

**Advising**

Students wishing to pursue a minor in the Department of Earth and Environmental Sciences must develop a specific plan for its completion in consultation with the department's designated advisor. Appointments are scheduled online [www.lsa.umich.edu/earth/undergraduate](http://www.lsa.umich.edu/earth/undergraduate)

**Prerequisites**

None.

**Requirements****Minimum Credits:** 15

1. **One introductory geoscience course** must be taken from one of the following two groups:
  - *Group 1.* Courses with laboratory: EARTH 116, 118&119, 120, 201.
  - *Group 2.* Courses without laboratory (EARTH 119, 205&206, 284).
2. **Core courses:** EARTH 222, 223.
3. **Elective courses (5-7 credits)** to be elected from the following:
  - CHEM 467

- EARTH 305, 320, 321, 409, 420, 421, 422, 446, 449, 452, 465, 467, 478, 479;
- EEB 380; 401 (*section titled "Field Methods in Great Lakes Oceanography"*) - taught at the U-M Biological Station
- AOSS 320, 321, 410, 420, 467
- ENSCEN 420, 455, 467
- NAVARCH 420, 455
- NRE 501 (*section titled "Field Methods in Great Lakes Oceanography"*) - taught at the U-M Biological Station
- or permission of advisor

## Paleontology (Minor)

The minor in Paleontology is designed for students interested in the history of life on Earth. Entry and core courses will provide students with insight into the major features of the fossil record, the methods used in historical sciences, and the theoretical issues dealt with by paleontologists. The advanced courses are meant to satisfy more

*Effective Fall 2014*

**Exclusions:**

*Not open to students electing the minor in Earth Sciences.*

**Advising**

Students wishing to pursue a minor in the Department of Earth and Environmental Sciences must develop a specific plan for its completion in consultation with the department's designated advisor. Appointments are scheduled online [www.lsa.umich.edu/earth/undergraduate](http://www.lsa.umich.edu/earth/undergraduate)

**Prerequisites**

None.

**Requirements****Minimum Credits:** 15

1. **Entry courses** (3-6 credits required). The "entry point" into the minor may include paleontology-oriented courses (EARTH 103, 106, 125, 150) or geology-related courses (EARTH 116, 118&119, 120, 149, 201, 205, 206, 207).
2. **Core courses** (4 credits required). EARTH 418 and 419 are required.
3. **Elective courses** (remaining 5-8 credits). Students may choose from:
  - EARTH 313, 431, 437, 438, 439, 445, 498 (for 1-3, but no more than 3 credits), 506, 510, 511, 513, 526 (no more than 1 credit)
  - ENVIRON 431
  - EEB 390, 445
  - or permission of advisor

## Water and the Environment (Minor)

Virtually all academic disciplines connect to water in some way. The study of water occurs on nearly every spatial scale: from molecular to planetary.

While 70% of the surface of our planet is covered in water, less than 1% of the water on the Earth's surface is fresh water and only 0.08% of this is available for human use. Currently, 600 million people face water scarcity, and 2.7 to 3.2 billion people will face water shortages by 2025. The decline in water quantity and quality is affecting myriad and complex interactions at multiple levels and scales, creating conflicts between governments and peoples, impacting local and global economies, and affecting human health and well-being.

This minor will offer students particularly interested in water issues a place where they can pursue in an organized fashion an environmentally oriented course of study of the topic.

*Effective Fall 2016*

### Advising

PitE staff and faculty advisors will help students navigate the "Water and the Environment Minor".

### Prerequisites

None.

### Requirements

#### Minimum Credits: 18

The minor consists of no fewer than 6 classes for a total of at least 18 credits.

1. **Introductory Course:** The Water Cycle, an Interdisciplinary Approach
2. **Second Water-Centered Course.** Select one from the list below.
3. **Three Topics Courses.** Select three courses from the list below. Two courses must be 300 level or above. Students will be required to take at least two courses from different sub-topics listed below.
4. **Practical Experience.** Student choose a practical experience synthesizing approaches and knowledge bases relevant to the issue. The practical experience can take the form of an independent study course, internship, field-oriented course or study abroad course. Students either work with a faculty advisor to complete an independent study course or internship, or they will consult with a PitE Advisor or faculty to choose a field-oriented course or study abroad experience synthesizing approaches and knowledge bases relevant to the student's interest in water.

**Second Water-Centered Course.** (Select one from the following list):

- AOSS 171 / ENVIRON 110 / BIOLOGY 110 / EARTH 171 / ENSCEN 171 / RCNSCI 110: Introduction to Global Change: The Science Behind Sustainability
- AOSS 172 / ENVIRON 111 / EARTH 172 / ENSCEN 172 / GEOG 111: Global Change: The Sustainability Challenge

- BIOLOGY 109: Ecological Knowledge and Environmental Problem Solving
- BIOLOGY 110 / AOSS 171 / ENVIRON 110 / EARTH 171 / ENSCEN 171 / RCNSCI 110: Introduction to Global Change: The Science Behind Sustainability
- EARTH 110: Evolving Oceans
- EARTH 171 / AOSS 171 / ENVIRON 110 / BIOLOGY 110 / ENSCEN 171 / RCNSCI 110: Introduction to Global Change: The Science Behind Sustainability
- EARTH 172 / AOSS 172 / ENVIRON 111 / ENSCEN 172 / GEOG 111: Global Change: The Sustainability Challenge
- EARTH 206 / ENVIRON 206: How the Earth Works: The Water Cycle and Environment
- EARTH 222 / ENVIRON 232: Introductory Oceanography
- EARTH 277: Water in the 21st Century
- ENSCEN 171 / AOSS 171 / ENVIRON 110 / BIOLOGY 110 / EARTH 171 / RCNSCI 110: Introduction to Global Change: The Science Behind Sustainability
- ENSCEN 172 / AOSS 172 / ENVIRON 111 / EARTH 172 / GEOG 111: Global Change: The Sustainability Challenge
- ENVIRON 110 / AOSS 171 / BIOLOGY 110 / EARTH 171 / ENSCEN 171 / RCNSCI 110: Introduction to Global Change: The Science Behind Sustainability
- ENVIRON 111 / AOSS 172 / EARTH 172 / ENSCEN 172 / GEOG 111: Global Change: The Sustainability Challenge
- ENVIRON 206 / EARTH 206: How the Earth Works: The Water Cycle and Environment
- ENVIRON 232 / EARTH 222: Introductory Oceanography
- GEOG 111 / AOSS 172 / ENVIRON 111 / EARTH 172 / ENSCEN 172: Global Change: The Sustainability Challenge
- HISTORY 240: The World Since 1492, *section titled "Oceans in World History"*
- RCNSCI 110 / AOSS 171 / ENVIRON 110 / BIOLOGY 110 / EARTH 171 / ENSCEN 171: Introduction to Global Change: The Science Behind Sustainability

**Three Topics Courses.** (Select three courses from the list below. Two courses must be 300 level or above. Students will be required to take at least two courses from different sub-topics listed below.):

### Culture

- AMCULT 301: Topics in American Culture, *section titled "Green Indigeneity"*
- ASIAN 371: Natural Disasters in East Asia
- CEE 307 / ENVIRON 407: Sustainable Cities
- CLCIV 277 / ENVIRON 277 / HISTORY 277: Environmental History of the Ancient Mediterranean

- ENGLISH 317: Literature and Culture, *sections titled "Green Indigeneities" and "Growing Up Near the Great Lakes"*
- ENGLISH 320: Literature and the Environment, *sections titled "Ecocriticism" and "Southern Natures: Race and Environment in the U.S. South"*
- ENGLISH 398: Junior Seminar in English Studies, *sections titled "American Literature and the Sea" and "Moby Dick: Allusion and Intertextuality"*
- ENVIRON 277 / CLCIV 277 / HISTORY 277: Environmental History of the Ancient Mediterranean
- ENVIRON 304: Topics in Culture and Environment, *sections titled "Growing Up Near the Great Lakes" and "Ecocriticism"*
- ENVIRON 324: Introduction to Water Law and Policy
- ENVIRON 407 / CEE 307: Sustainable Cities
- ENVIRON 410: American Environmentalism and the Frontier West
- HISTORY 240: The World Since 1492, *section titled "Oceans in World History"*
- HISTORY 277 / CLCIV 277 / ENVIRON 277: Environmental History of the Ancient Mediterranean
- RCHUMS 334: Special Topics in the Humanities, *section titled "Growing Up Near the Great Lakes"*
- WRITING 410: Quantitative Analysis and Writing in the Disciplines, *section titled "Demystifying Water Data"*

#### **Economics, Policy & Planning**

- ARCH 357 / UP 357: Architecture, Sustainability and the City: Ideas, Forces and People Shaping the Built Environment
- ECON 370 / ENVIRON 375: Environmental and Resource Economics
- EHS 588 / ENVIRON 475 / NRE 475: Environmental Law
- ENVIRON 208 / ORGSTUDY 208: Business and the Natural Environment
- ENVIRON 235: Economics of Natural Resources and Environment
- ENVIRON 306: Global Water
- ENVIRON 365: International Environmental Policy
- ENVIRON 375 / ECON 370: Environmental and Resource Economics
- ENVIRON 408: Land Use Policy, Law, and the Environment
- ENVIRON 412 / PUBPOL 412: Environmental Values in Public Policy
- ENVIRON 475 / EHS 588 / NRE 475: Environmental Law
- NRE 475 / ENVIRON 475 / EHS 588: Environmental Law
- ORGSTUDY 208 / ENVIRON 208: Business and the Natural Environment

- PUBPOL 412 / ENVIRON 412: Environmental Values in Public Policy
- UP 357 / ARCH 357: Architecture, Sustainability and the City: Ideas, Forces and People Shaping the Built Environment

#### **Natural Sciences & Resource Management**

- AOSS 350 / EARTH 350: Atmospheric Thermodynamics
- AOSS 411 / EARTH 411: Cloud and Precipitation Processes
- AOSS 420 / NAVARCH 420 / ENSCEN 420: Environmental Ocean Dynamics
- AOSS 467 / CHEM 467 / EARTH 465 / ENSCEN 467 / ENVIRON 467: Biogeochemical Cycles
- AOSS 474 / EARTH 474: Ice Sheets, Glaciers and Climate Change
- CHEM 467 / AOSS 467 / EARTH 465 / ENSCEN 467 / ENVIRON 467: Biogeochemical Cycles
- ENVIRON 426 / CLIMATE 421 / EARTH 421: Introduction of Physical Oceanography
- EARTH 222 / ENVIRON 232: Introductory Oceanography
- EARTH 223 / ENVIRON 233: Introductory Oceanography, Laboratory
- EARTH 333 / ENVIRON 333: The Inexhaustible Seas? Marine Resources and Environmental Issues
- EARTH 350 / AOSS 350: Atmospheric Thermodynamics
- EARTH 411 / AOSS 411: Cloud and Precipitation Processes
- EARTH 417: Geology of the Great Lakes
- EARTH 421 / CLIMATE 421 / ENVIRON 426: Introduction of Physical Oceanography
- EARTH 449: Marine Geology
- EARTH 452: Paleoceanography
- EARTH 465 / AOSS 467 / CHEM 467 / ENSCEN 467 / ENVIRON 467: Biogeochemical Cycles
- EARTH 474 / AOSS 474: Ice Sheets, Glaciers and Climate Change
- EARTH 478: Geochemistry of Natural Waters
- EEB 320 / ENVIRON 311: Rivers, Lakes, and Wetlands: Introduction to Aquatic Ecosystems
- EEB 380: Oceanography: Marine Ecology
- EEB 440 / ENVIRON 422 / NRE 422: Biology of Fishes
- EEB 450: Biology of Amphibians and Reptiles
- EEB 455: Ethnobotany
- EEB 457: Algae in Freshwater Ecosystems
- EEB 476 / ENVIRON 476 / NRE 476: Ecosystem Ecology
- EEB 483: Freshwater Ecosystems: Limnology

- EEB 486: Biology and Ecology of Fish
- EEB 487 / ENVIRON 409 / NRE 409: Ecology of Fishes
- EEB 489 / ENVIRON 430 / NRE 430: Soil Ecology
- ENSCEN 420 / AOSS 420 / NAVARCH 420: Environmental Ocean Dynamics
- ENSCEN 467 / AOSS 467 / CHEM 467 / EARTH 465 / ENVIRON 467: Biogeochemical Cycles
- ENVIRON 201 / RCNSCI 202: Ecological Issues
- ENVIRON 232 / EARTH 222: Introductory Oceanography
- ENVIRON 233 / EARTH 223: Introductory Oceanography, Laboratory
- ENVIRON 311 / EEB 320: Rivers, Lakes, and Wetlands: Introduction to Aquatic Ecosystems
- ENVIRON 333 / EARTH 333: The Inexhaustible Seas? Marine Resources and Environmental Issues
- ENVIRON 409 / NRE 409 / EEB 487: Ecology of Fishes
- ENVIRON 421: Restoration Ecology
- ENVIRON 422 / NRE 422 / EEB 440: Biology of Fishes
- ENVIRON 426 / CLIMATE 421 / EARTH 421: Introduction of Physical Oceanography
- ENVIRON 430 / NRE 430 / EEB 489: Soil Ecology
- ENVIRON 463: Topics in Environmental Natural Science, *section titled "Stream Restoration"*
- ENVIRON 467 / AOSS 467 / CHEM 467 / EARTH 465 / ENSCEN 467: Biogeochemical Cycles
- ENVIRON 476 / EEB 476 / NRE 476: Ecosystem Ecology
- NAVARCH 420 / AOSS 420 / ENSCEN 420: Environmental Ocean Dynamics
- NRE 409 / ENVIRON 409 / EEB 487: Ecology of Fishes
- NRE 422 / ENVIRON 422 / EEB 440: Biology of Fishes
- NRE 430 / ENVIRON 430 / EEB 489: Soil Ecology
- NRE 476 / ENVIRON 476 / EEB 476: Ecosystem Ecology
- PHYSICS 210: Energy for our Future
- RCNSCI 202 / ENVIRON 201 / RCNSCI 202: Ecological Issues

- PUBHLTH 305: The Environment and Human Health
- PUBHLTH 350: Global Public Health: Challenges and Transformation

#### **Technology**

- ARTDES 250: Art, Design, and the Environment
- CEE 265: Sustainable Engineering Principles
- CEE 307 / ENVIRON 407: Sustainable Cities
- CEE 365: Environmental Engineering Principles
- CEE 480: Design of Environmental Engineering Systems
- CEE 481: Aquatic Chemistry
- EARTH 477 / ENVIRON 479: Hydrogeology
- ENVIRON 321: Climate Change and Adaptation
- ENVIRON 407 / CEE 307: Sustainable Cities
- ENVIRON 479 / EARTH 477: Hydrogeology
- UP 425: Urban Systems

#### **Constraints**

Two of the three Topics Courses must be 300 level or above. Students will be required to take at least two courses from different sub-topics listed below.

#### **Public Health**

- AAS 409 / ANTHRCUL 408: Maternal/Child Health and Environmental Pollution in Africa
- AAS 458: Issues in Black World Studies, *section titled "Business and Politics in Developing Countries"*
- ANTHRCUL 408 / AAS 409: Maternal/Child Health and Environmental Pollution in Africa
- ENVIRON 310: Toxicology: The Study of Environmental Chemicals and Disease

# Ecology and Evolutionary Biology

## Ecology and Evolutionary Biology (Minor)

The minor trains biologists interested in the origins and complex interactions of the earth's biodiversity and ecosystems with both the fundamental knowledge in these areas and the basic skills of scientific inquiry. The minor covers the material of the major to a lesser depth for students who wish to supplement a major in another area with additional biological expertise.

Effective Winter 2016

### Exclusions:

Students who elect a minor in Ecology and Evolutionary Biology may not elect the following majors: Biology, General Biology, Plant Biology, Ecology and Evolutionary Biology, Microbiology, or Biochemistry. They may also not elect a minor in Biology or Plant Biology.

The minor in Ecology and Evolutionary Biology is not recommended for students interested in graduate work in the biological sciences.

### Advising

Students are advised by a combination of Undergraduate Biology Office staff and faculty department advisors. Advising topics include investigating majors, declaring a major, course planning, research and Honors, major releases, graduate school and career advice. Students who are interested in the EEB major or minor should consult a general advisor during the freshman year, and are strongly encouraged to meet with a department advisor early in their academic career, but no later than the second term of their sophomore year. It is not necessary to complete every prerequisite before declaring a major. To make an appointment, go to the Program in Biology website at <http://lsa.umich.edu/biology/undergraduates/advising.html>.

### Grade Policies

#### Total Credits and GPA Requirement for Ecology and Evolutionary Biology Minor:

Minimum 15 cr. in Minor

Minimum 2.0 GPA in Minor

GPA is calculated from all mandatory prerequisites, all courses used for minor requirements, and all courses in BIOLOGY, EEB, and MCDB.

### Prerequisites

#### Introductory Biology Sequence:

Choose Sequence A or B:

1. BIOLOGY 171, 172 or 174, & 173; or,
2. BIOLOGY 195 (AP) & 173

### Requirements

Minimum Credits: 15

#### Core Courses:

Select at least two of the three courses listed. (Courses with an asterisk (\*) may overlap with the lab requirement.)

- Ecology: BIOLOGY 281 or EEB 381\*

- Genetics: BIOLOGY 305
- Evolution: EEB 390, 391, or 392\*

#### Laboratory/Field Course:

(This requirement may OVERLAP with other minor reqs.)

- Choose one laboratory/field course from the following: BIOLOGY 207, 226, 230, 252, 255, 288; EEB 300\*, 313, 320, 321, 330, 341, 348, 372, 381, 392, 400\*, 405, 416, 431, 433, 436, 441, 442, 443, 450, 451, 453, 455, 457, 459, 463, 468, 477, 482, 483, 486, 489, 493, 556; MCDB 300\*, 306, 308, 400\*, 416, 419, 423, 424, 429  
\*EEB/MCDB 300 or 400 (Independent Research), elected for a minimum of 3 credits in a single term, may be used to fulfill a lab requirement. (3 credit max. applies; see CONSTRAINTS below.)

#### Biodiversity Course:

(Courses with an asterisk (\*) may overlap with the lab requirement)

- Choose one course: BIOLOGY 207\*, 230\*, 252\*, 255\*, 256, 288\*; EEB 330\*, 341\*, 380 (F17), 420, 431\*, 433\*, 436\*, 440, 442\*, 443\*, 450\*, 451\*, 453\*, 457\*, 459\*, 463\*, 468\*, 470, 486\*, 556\*

#### Additional Courses:

Choose additional specific EEB courses, to reach 15 minor credit hours.

- BIOLOGY 241, BIOLOGY 262, EEB 301, EEB 302, EEB 800, and non-specific (departmental) transfer courses are EXCLUDED

#### Constraints

- Prerequisites, introductory science courses, and non-specific (departmental) transfer courses are excluded from the 15 cr. required for the minor.
- A maximum of three credits of independent research (BIOLOGY 200, EEB/MCDB 300, or EEB/MCDB 400) may be counted toward the minor.

## Ecology, Evolution, and Biodiversity (EEB) (Major)

The Ecology, Evolution, and Biodiversity (EEB) major provides a comprehensive foundation in the biological sciences, places an emphasis on undergraduate research experience, and provides an integrated perspective on the origins and complex interactions of the earth's biodiversity and ecosystems. It focuses on numerous levels of biological organization over multiple time scales, including studies of genes and genomes, individual organisms, populations, communities and ecosystems. The major is highly suitable for students who wish to pursue career pathways in a wide variety of disciplines. These include graduate studies in the biological, public health and medical, dental, and veterinary professions, conservation and natural resource management, teaching at the K-12 level, positions in the local, state and federal governments, non-profit/non-governmental organizations, and private sector opportunities such as environmental consulting agencies.

Effective Winter 2017

**Exclusions:**

Students who elect a major in Ecology, Evolution, and Biodiversity may not elect the following majors: Biology, General Biology; Microbiology; Plant Biology; or Biochemistry. They may also not elect a minor in Biology; Ecology and Evolutionary Biology; Plant Biology; Chemistry; or Biochemistry.

**Advising**

Students are advised by a combination of Undergraduate Biology Office staff and faculty department advisors. Advising topics include investigating majors, declaring a major, course planning, research and Honors, major releases, graduate school and career advice. Students who are interested in the EEB major or minor should consult a general advisor during the freshman year, and are strongly encouraged to meet with a department advisor early in their academic career, but no later than the second term of their sophomore year. It is not necessary to complete every prerequisite before declaring a major. To make an appointment, go to the Program in Biology website at [www.lsa.umich.edu/biology/](http://www.lsa.umich.edu/biology/).

**Grade Policies****Total Credits and GPA Requirement for Ecology and Evolutionary Biology:**

Minimum 30 cr. in Major

Minimum 2.0 GPA in Major

GPA is calculated from all mandatory prerequisites, all courses used for major requirements (including cognates), and all courses in BIOLOGY, EEB, and MCDB.

The introductory biology sequence must be taken for a grade. Prerequisites other than introductory biology may be taken pass/fail; however, it is not recommended, especially for chemistry. Remember that at least a C- must be earned to pass a course taken pass/fail.

Courses used for the major may not be taken pass/fail.

**Prerequisites****Introductory Biology Sequence:**

Choose Sequence A or B:

1. BIOLOGY 171, 172 or 174, & 173; or,
2. BIOLOGY 195 (AP) & 173

**Chemistry Sequence:**

- CHEM 210 & 211

**Quantitative Analysis Sequence:**

- Quantitative Analysis 1: CALCULUS I: MATH 115, 120 (AP), 175, 185, or 295; and,
- Quantitative Analysis 2: One course from: MATH 116, 121 (AP), 156, 176, 186, or 296; STATS 180, 250 or 280; STATS 400-level or above (min. 3 credits); BIOLOGY 202; BIOPHYS/PHYSICS 290; EECS 203 or 280; EARTH 468; or other course with a MATH 115 prereq. chosen in consultation with a major advisor. *[Note: Any course used to fulfill this requirement cannot also be used as a major elective; i.e., a course cannot "double-count."]*

**Physics Sequence:**

- Physics I (lecture & lab): One of the following combinations: PHYSICS 125 & 127, 135 & 136, 140 & 141, or 160 & 161. PHYSICS 139 (AP) will also fulfill this requirement.

**Requirements****Minimum Credits: 30****EEB Major Core:**

- Ecology: BIOLOGY 281 and EEB 372 \*or\* EEB 381 (at UMBS)
- Genetics: BIOLOGY 305
- Evolution: EEB 390, 391, or 392
- Biochemistry or Quantitative Analysis 3 (min. 3 credits): Choose from: MCDB 310; BIOLCHEM 415; CHEM 351; STATS 401, 403, 412, or 425; EECS 281 or 376; EEB 408, 430, or 490; or a second (non-AP) course at the 200-level or above from the QA2 options above.
- EEB capstone: EEB 410

**Upper-Level Electives for EEB:**

(2 courses, minimum 6 credits)

- EEB 300-level or above
  - EEB 300/400, 301, 302, 397, 399, 499, 800, and non-specific (departmental) transfer courses are EXCLUDED.
- EEB or MCDB 300-level or above
  - EEB/MCDB 300/400, 301, 302, 397, 399, 499, 800, and non-specific (departmental) transfer courses are EXCLUDED.

**EEB Requirements:**

(these may overlap with the Major Core or Electives):

- Biodiversity Focus (BD) [at least one]: BIOLOGY 207, 230, 252, 255, 256, 288; EEB 330, 341, 380 (F17), 420, 431, 433, 436, 440, 442, 443, 450, 451, 453, 457, 459, 463, 468, 470, 486, 556
- Field or Research Experience (FR) [at least one]: EEB 300\*, 321, 330, 348, 381, 392, 400\*, 405, 431, 443, 453, 455, 457, 482, 493, 556  
\*EEB/MCDB 300 or 400 (Independent Research), elected for a minimum of 3 credits in a single term, may be used to fulfill the FR requirement. (6 credits max. applies; see CONSTRAINTS below.)

**Additional Courses:**

- Choose additional BIOLOGY, EEB, and MCDB courses at the 200-level and above, to reach 30 major credit hours.
  - BIOLOGY 241, EEB/MCDB 301, EEB/MCDB 302, EEB/MCDB 800, MCDB 412, and non-specific (departmental) transfer courses are EXCLUDED.
- A maximum of two approved cognate courses may be used as additional courses: ANTHRIBIO 365, 368, BIOLCHEM 415\*; BIOMEDE 231; CHEM 230 and above\*; CLIMATE 320; CMPLXSYS 501, 530; EARTH 320, 418, 436, 437, 438, 450, 453; EHS 311; ENSCEN 304; ENVIRON 310, 317, 450, 453; EPID 543, 560; HUMGEN 541; MATH 200 and above\*; MICRBIOL



405; PHYSICS as approved\*; PSYCH 332, 337, 338, 530; SPACE 320; STATS 250\*, 280\*, 400\*(\*Courses used as prerequisites or core options may not double-count as additional courses.)

#### Constraints

- Prerequisites, introductory science courses, and non-specific (departmental) transfer courses are EXCLUDED from the 30 cr. required for the major.
- A maximum of six credits of independent research (BIOLOGY 200, EEB/MCDB 300/400) may be counted toward the major.

#### Honors

The Program in Biology administers an Honors Program to train students to conduct independent research in the biological sciences. Participating in the honors program allows students to develop their research skills, deepen their understanding of the field, and form productive relationships with faculty and other students. The achievement is noted on the diploma and official transcript.

In addition to completing all the requirements for the major, an honors degree requires:

1. a major GPA of at least 3.4, and
2. the completion of a significant piece of independent research that is
  1. reported in an honors thesis and
  2. presented in a public forum.

For more information, consult the Program in Biology Honors Program Information page or a Program in Biology advisor.

# Economics

As a social science, economics is concerned with people in their roles as economic decision makers. Economists study how business and personal decisions are made under conditions of uncertainty and incomplete information, and they provide insight into problems involving both short- and long-term planning, such as investment and savings decisions.

Economic problems are central to modern society; they center around the utilization of limited resources to provide goods and services for society. Consequently, a broad understanding of the modern world requires some knowledge of economic systems. An individual's intelligent understanding of and participation in the solution of problems which face society is aided by an understanding of the point of view and techniques of analysis which have been developed by economists.

The introductory courses (ECON 101 and 102) offered by the department are designed to provide basic knowledge as well as to serve as a foundation for other courses in economics for students who wish to pursue the subject at an intermediate or advanced level.

Virtually all empirical work in economics relies on statistical and econometric analysis. No one can understand or evaluate empirical economics, let alone perform it, without solid grounding in the tools of econometrics. Our curriculum requires a two-course sequence in statistics and econometrics. Student may choose from three different sequences that differ in emphasis (practical, applications, concepts, or foundations) and in mathematical preparation (Calc I, Calc II, or Calc II + linear algebra).

Students who wish to attain professional competence as economists in preparation for careers in research or in college or university teaching normally plan on graduate work in economics.

## Economics (Major)

A major in Economics leads to a more detailed understanding of the modern economic world and provides a useful background for students seeking careers in law, business, government, journalism, and teaching. A strong grounding in both theoretical and applied aspects of economics allows students to use their knowledge to understand economic behavior and provides a basis for evaluating economic policy.

*Effective Fall 2016*

### Advising

Students interested in a major or minor in Economics should consult an economics department advisor. Appointments are scheduled online at: <http://lsa.umich.edu/econ/undergraduates/departamental-advising.html>

Students are urged to consult with a department advisor each term before selecting courses for the following term.

**Economics Undergraduate Office.** The undergraduate office is located at 243 Lorch Hall, (734) 763-9242. The Student Services Assistant for the economics undergraduate program is available to answer questions about requirements for the major, course offerings, wait-list procedures, career/job information, economics networking program, and other matters concerning the undergraduate program.

### Prerequisites

ECON 101 and 102 and MATH 115, each completed with a grade of C or better. MATH 120 may not be substituted for MATH 115. MATH 116, 121, 156, 185, 186, 215, 216, 255, 256, 285, 286, 295, or 296 may be substituted for MATH 115.

To declare an Economics major, schedule an appointment with an Economics Department advisor. Students must complete the prerequisites to the major before declaring and must have a GPA of 2.0 or better in the major.

Students interested in advanced economics are strongly encouraged to continue the study of mathematics beyond MATH 115. Note that MATH 116 (Calculus II) is a prerequisite for ECON 451 and that MATH 215 (Calculus III) and MATH 217 (Linear Algebra) are prerequisites for ECON 453.

### Requirements

#### Minimum Credits: 29

1. **Core Economic Theory**
  - ECON 401, completed with a grade of C– or better.
  - ECON 402, completed with a grade of C– or better. (ECON 401 should be elected before ECON 402.)
2. **Core Statistics and Econometrics**
  - STATS 250 or 280 (Basic), or STATS 426 or ECON 451 (Intermediate), or ECON 453 (Advanced), completed with a grade of C– or better.
  - ECON 251 (Basic), or ECON 452 (Intermediate), or ECON 454 (Advanced); completed with a grade of C– or better.

Students interested in economic research and/or in applying to doctoral programs in economics or finance are encouraged to elect the advanced sequence, ECON 453 and 454. These courses develop a deep, foundational understanding of the empirical methods used in economic research. This sequence will be especially useful to students intending to apply to doctoral programs in economics or finance.

3. **Electives:** 15 additional credits in upper-level (300 and 400 level) ECON courses, including at least nine credits in courses with ECON 401 or ECON 402 as a prerequisite.

ECON 401 and 402, and ECON 250, 251, 451, 452, 453, and 454 do not count toward the elective requirement for the major.

All students intending to major in Economics should endeavor to complete the core requirements in economic theory and in statistics and econometrics before the second term of the junior year.

### Other Department Policies

### AP Credits

The Department of Economics does not give AP credit for ECON 101 or ECON 102. Whenever the department lists ECON 101 or ECON 102 as a prerequisite, the department does not accept AP credit as a substitute.

Students achieving a 4 or 5 on the AP Microeconomics exam receive 2 credits for ECON 101X, and students achieving a 4 or 5 on the AP Macroeconomics exam receive 2 credits for ECON 102X. As prerequisites for other courses in Economics and as prerequisites for the Economics major and minor, ECON 101X does not substitute for ECON 101, and ECON 102X does not substitute for ECON 102. Students receiving 2 credits for ECON 101X may take ECON 101 and receive 4 credits for ECON 101. Students who receive 2 credits for ECON 102X may take ECON 102 and receive 4 credits for ECON 102. Thus, anyone who intends to concentrate in economics, to minor in economics, or to take electives in economics at the 300 or 400 level should enroll in ECON 101 and/or ECON 102.

Students intending to apply to the BBA program should consult carefully the requirements of the Business School. As of this writing, the Business School does not accept ECON 101X as a substitute for ECON 101, and it does not accept ECON 102X as a substitute for ECON 102.

Advanced placement credits in MATH 121 may be substituted for MATH 115. Credits in MATH 120 alone do not satisfy the mathematics prerequisite for an economics major or minor. Students with credit for MATH 120 may satisfy the mathematics prerequisite for the Economics major by completing, with a grade of at least C, MATH 115, MATH 116, or one of the Honors alternatives to these courses.

### Residency

#### Ann Arbor campus requirement

To count toward the major, any course not taken on the Ann Arbor campus of the University should be approved in advance by an Economics Department Advisor.

ECON 401 and 402 must be taken on the Ann Arbor campus of the University.

To count toward the major, at least four credits of 400-level electives with ECON 401 or ECON 402 as a prerequisite must be taken on the Ann Arbor campus of the University.

### Honors

Qualified students are encouraged to consider an Honors plan in Economics. The standards for admission are a cumulative grade point average of at least 3.5 and evidence of outstanding ability in economics. Application is made and admission is granted to the Honors plan during the first term of the junior year.

Honors majors are required to complete the requirements for a regular major in Economics.

An Honors plan must include

1. One of: ECON 451 or ECON 453 or STATS 426
2. One of: ECON 452 or ECON 454.

In addition, Honors majors must complete a senior Honors thesis. The senior Honors thesis includes original work completed by the student under the direction of a faculty advisor and the Director of the Honors Program in Economics. Honors majors are given priority in election of one section of ECON 495 (Seminar in Economics).

## Economics (Minor)

A minor in economics provides a useful background for students seeking careers in law, business, government, journalism, and teaching. Students concentrating in one of the other social sciences are often interested in economic issues and the study of economics provides them with tools useful for analyzing the economic aspects of issues in these other disciplines. The analytic skills and knowledge of economic institutions developed in the pursuit of the minor in economics will be useful to students in all disciplines who will be contributing to business and public policy decisions. Students completing the minor in economics develop analytical skills through exploring the paradigms of microeconomics and macroeconomics at the intermediate level and increase their understanding of economics institutions and of application of economic principles.

*Effective Fall 2015*

### Exclusions:

*Academic minor in Economics is not open to students with a major in the Department of Economics.*

### Advising

Students interested in a major or minor in Economics should consult an economics department advisor. Appointments are scheduled online at: [www.lsa.umich.edu/econ/undergraduatestudy/departentaladvising](http://www.lsa.umich.edu/econ/undergraduatestudy/departentaladvising)

Students are urged to consult with a department advisor each term before selecting courses for the following term.

**Economics Undergraduate Office.** The undergraduate office is located at 243 Lorch Hall, (734) 763-9242. The Student Services Assistant for the economics undergraduate program is available to answer questions about requirements for the major, course offerings, wait-list procedures, career/job information, economics networking program, and other matters concerning the undergraduate program.

### Prerequisites

ECON 101 and 102 and MATH 115, each completed with grade at least C. One of the Honors alternatives to MATH 115 may be substituted for MATH 115. Advanced placement credits in MATH 121 may be substituted for MATH 115. Credits in MATH 120 alone do not satisfy the mathematics prerequisite for an economics major or minor. Students with this credit may complete the economics mathematics prerequisite by completing, with a grade of at least C, MATH 115, MATH 116, or one of the Honors alternatives to these courses.

### Requirements

#### Minimum Credits: 17

17 credits in ECON at the 300-level and above, distributed as follows:

1. ECON 401: Intermediate Microeconomics and ECON 402: Intermediate Macroeconomics, each completed with a grade of at least C- [ECON 401 should be taken before ECON 402.]
2. Nine additional credits in upper level (300 and 400 level) ECON courses, including at least 3 credits in courses with ECON 401 or ECON 402 as a prerequisite.

One (but only one) of ECON 452 and 454 may be counted toward this requirement. Neither ECON 451 nor 453 may be counted toward this requirement.

### Other Department Policies

The Department of Economics does not give AP credit for ECON 101 or ECON 102. Whenever the department lists ECON 101 or ECON 102 as a prerequisite, the department does not accept AP credit as a substitute.

Students achieving a 4 or 5 on the AP Microeconomics exam receive 2 credits for ECON 101X, and students achieving a 4 or 5 on the AP Macroeconomics exam receive 2 credits for ECON 102X. As prerequisites for other courses in Economics and as prerequisites for the Economics major and minor, ECON 101X does not substitute for ECON 101, and ECON 102X does not substitute for ECON 102. Students receiving 2 credits for ECON 101X may take ECON 101 and receive 4 credits for ECON 101. Students who receive 2 credits for ECON 102X may take ECON 102 and receive 4 credits for ECON 102. Thus, anyone who intends to concentrate in economics, to minor in economics, or to take electives in economics at the 300 or 400 level should enroll in ECON 101 and/or ECON 102.

Students intending to apply to the BBA program should consult carefully the requirements of the Business School. As of this writing, the Business School does not accept ECON 101X as a substitute for ECON 101, and it does not accept ECON 102X as a substitute for ECON 102.

Advanced placement credits in MATH 121 may be substituted for MATH 115. Credits in MATH 120 alone do not satisfy the mathematics prerequisite for an economics major or minor. Students with credit for MATH 120 may satisfy the mathematics prerequisite for the Economics major by completing, with a grade of at least C, MATH 115, MATH 116, or one of the Honors alternatives to these courses.

### **Residency**

#### **Ann Arbor campus requirement**

To count toward the minor, any course not taken on the Ann Arbor campus of the University should be approved in advance by an Economics Department Advisor.

ECON 401 and 402 must be taken on the Ann Arbor campus of the University.

To count toward the minor, at least three credits of 400-level electives with ECON 401 or ECON 402 as a prerequisite must be taken on the Ann Arbor campus of the University.

# Electrical Engineering and Computer Science (College of Engineering)

The program not only provides a solid foundation in computer software, hardware, and theory, but also gives the student ample opportunity to take advanced electives in areas of computer science such as databases, operating systems, security, networks, artificial intelligence, and graphics, or in emerging interdisciplinary areas such as cloud computing, smart phone or web apps, and computer game design.

## Computer Science (Major)

Effective Fall 2012

### Grade Policies

Students must achieve a 2.5 GPA over the 4 pre-courses for the major and have at least a C in each course. Students may repeat a pre-major course once, for a maximum of two attempts at each course, and only the final grade for the course will be used to compute the premajor GPA. Only courses with grades of C+ or below can be repeated for this purpose.

### Prerequisites

To declare in the LSA Computer Science (CS) major a student must first complete 4 pre-courses for the major. These are: EECS 203, EECS 280, MATH 115, MATH 116. Performance in these classes is indicative of student aptitude for the Computer Science program, and students who do not perform well are encouraged to meet with a CS-LSA advisor.

### Requirements

1. **Core Courses:**
  1. *Computer Science:* EECS 281, 370, 376.
  2. *Probability and Statistics:* STATS 250, 280, 412, 426, STATS 265/IOE 265, ECON 451 (F17), or TO 301 (F17).
2. **Capstone Course** ( which may not be counted as CS Upper Level Technical Elective below): **Senior Thesis**(EECS 443) or **Major Design Experience Course** (check with the department for current list of approved MDE courses).
3. **Upper-Level CS Technical Electives.** 16 credits. Check with the department for an up-to-date list of approved Upper Level CS elective courses. The department can suggest groupings of electives that pursue different tracks such as software development, robotics, or bioinformatics, among various others.

Comprehensive and up-to-date information about the computer science program can be found on the web at: [www.eecs.umich.edu/eecs/undergraduate/](http://www.eecs.umich.edu/eecs/undergraduate/)

### Constraints

At least 27 credits must be upper-level.

### Honors

Students wishing to complete an Honors major in Computer Science must have earned a 3.2 or higher GPA in the four required pre-courses

for the major (MATH 115, 116, EECS 203 and 280). Student must also have earned an overall GPA of 3.4 or higher (as required by LSA for Honors), and must have a final major GPA in Computer Science of 3.5 or higher. Students must complete the Senior Thesis course (EECS 443), write a thesis, and make an oral presentation of the thesis results, with the faculty advisor and a second faculty member determining whether the thesis is of a quality that qualifies the students for Honors.

## Computer Science (Minor)

Effective Winter 2016

### Exclusions:

*A minor in Computer Science is not open to students with a major in the Department of Electrical Engineering and Computer Science. Since Data Science is owned jointly by the department of Statistics and EECS, DS-LSA and DS-Eng students are not eligible for the CS Minor.*

### Grade Policies

Grades of C or better must be achieved in all courses taken to satisfy Computer Science requirements.

### Prerequisites

MATH 115, and prior programming experience: EECS 183, ENGR 101, or their equivalent.

You must satisfy the prerequisites before declaring. The best time to declare is during or after the academic term you take your first core course (EECS 203 or 280). Note that you will need to declare before you will be allowed to enroll in any of the electives.

### Requirements

#### Minimum Credits: 16

1. **Three Core Courses** (4 credits each):
  - EECS 203: Discrete Mathematics
  - EECS 280: Programming and Introductory Data Structures
  - EECS 281: Data Structures and Algorithms

EECS 281 has both EECS 203 and 280 as prerequisites. All of the electives have EECS 281 as a prerequisite. Thus, completing the minor requires a minimum of three academic terms.
2. **Electives:** At least one 4-credit elective selected from EECS 388, 482, 483, 484, 485, 487, 490, 492, and 493.

## Electrical Engineering (Minor)

As the lines between engineering and scientific disciplines become increasingly blurred, many students are forced to make tough decisions about which concentration to choose. An academic minor in Electrical Engineering (EE), offered through the ECE division of the EECS Department, is designed to provide an avenue for a diverse education for students outside of the EECS department. Due to the extensive

breadth of EE discipline areas, students seeking an academic minor in EE have a spectrum of choices for the program paths they choose. Path options include Applied Electromagnetics, Circuits, Communications, Control Systems, Optics, Signal Processing, and Solid State.

**Intended Audience.** While the academic minor would be open to all qualified students in LSA, it is expected to be of interest primarily to students in the Physical Sciences (who both use complex electronics and signal processing to collect and analyze data, and also contribute to improved electronic devices), Mathematics (improved algorithms for a wide variety of applications including signal processing, communications, and control), and Life Sciences (electronics, signal processing, and electromagnetics for research and patient treatment). It may also be of interest for students in pre-law programs planning a career in patent law, or in other areas.

#### **Electrical Engineering (EE) Declaration Requirements:**

To declare a minor in EE, you must:

1. Have completed at least one full term at UM Ann Arbor
2. Have an overall UM GPA of 2.0 or better in courses taken at the UM Ann Arbor campus and be in good standing
3. Have completed or earned credit by exam or transfer for at least one course in each of these categories
  - a. Calculus (e.g. Math 115, 116, 156)
  - b. Calculus based physics lectures (e.g. Physics 140, 160) or chemistry lectures (e.g. Chem 130)
  - c. Required engineering courses (Engr 100, 101, 151)

#### **Minimum Program Requirements**

A minimum of 15 credits must be completed with a grade of a C or better. At least one elective course must be at the 400-level.

**Required course:** EECS 215: Introduction to Circuits (Note: BIOMEDE 211 or EECS 314 may be used in place of EECS 215 if one additional EECS course is taken from the following approved course lists)

#### **One of the following program core courses:**

EECS 216: Signals and Systems

EECS 270: Introduction to Logic Design

EECS 230: Electromagnetics I

EECS 320: Introduction to Semiconductor Devices

#### **Two of the following courses (at least one course at the 400-level, no duplicates):**

EECS 216: Signals and Systems

EECS 230: Electromagnetics I

EECS 270: Introduction to Logic Design

EECS 320: Introduction to Semiconductor Devices

EECS 311: Electronic Circuits

EECS 312: Digital Integrated Circuits

EECS 330: Electromagnetics II

EECS 334: Principles of Optics

EECS 351: Introduction to Digital Signal Processing

EECS 370: Introduction to Computer Organization

EECS 373: Design of Microprocessor Based Systems

EECS 411: Microwave Circuits I

EECS 413: Monolithic Amplifier Circuits

EECS 414: Introduction to MEMS

EECS 418: Power Electronics

EECS 419: Electric Machinery and Drives

EECS 420: Phys. Prin. Underlying Smart Devices

EECS 421: Properties of Transistors

EECS 423: Solid-State Device Laboratory

EECS 425: Integrated Microsystems Lab

EECS 427: VLSI Design I

EECS 429: Semiconductor Optoelectronic Devices

EECS 430: Radiowave Propagation & Link Design

EECS 434: Principles of Photonics

EECS 452: Digital Signal Processing Lab

EECS 455: Digital Comm. Signals & Systems

EECS 460: Control Systems Analysis & Design

EECS 461: Embedded Control Systems

EECS 463: Power Systems Design and Operation

EECS 470: Computer Architecture

EECS 473: Advanced Embedded Systems

EECS 530: Electromagnetic Theory I

# English Language and Literature

## Creative Writing (Minor)

Students wishing to pursue an academic minor in Creative Writing must develop a specific plan for its completion in consultation with an English Department undergraduate advisor.

Being able to work creatively with ideas through words is elemental to a humanistic education, and can complement information-based learning in productive and exciting ways. An academic minor in Creative Writing allows students with a strong interest in the writing of either poetry or prose fiction to develop and explore their craft through both workshop-formatted courses as well as through courses in literary history.

*Effective Fall 2017*

### Exclusions:

*Not open to students with a major in English, a major in Creative Writing in the Residential College, a minor in English, or a minor in Writing through the Sweetland Center for Writing.*

### Advising

Students are encouraged to discuss their academic program and related concerns with an English department advisor. Appointments are scheduled on the [English Department's website](#) under academic advising. For questions of immediate concern or general questions about the major, students may speak with the Undergraduate Administrator by phoning 734.764.6330 or by coming to 3187 Angell Hall.

### Peer Advising Program

The English Undergraduate Office offers Peer Advising hours where students can come in and ask questions about the various programs and declare their major while getting a student's perspective on what it's like to be an English major. Check on the website or in the main office for their advising hours.

### Prerequisites

ENGLISH 223.

Students may declare a creative writing minor in consultation with an English Creative Writing Advisor. Appointments are scheduled at <http://www.lsa.umich.edu/english/undergraduate/advising/appts.aspx>.

### Requirements

**Minimum Credits:** 15

15 credit hours of additional courses, to be chosen from the following categories, as described below.

1. One course in Creative Writing in poetry or prose fiction at the intermediate level (ENGLISH 324, poetry or ENGLISH 323, prose fiction).
2. One course in Creative Writing in poetry or prose fiction at the advanced level (ENGLISH 424, advanced poetry, or ENGLISH 423, advanced fiction). Either ENGLISH 423 or 424 would satisfy the academic minor's Upper-Level Writing Requirement.

3. Nine other credits in either craft or literary history courses at the 300- or 400-level. Upon consultation with an advisor, a student, if interested in writing *both* poetry and prose, may fulfill three of these credits in a 300-level Creative Writing course in the genre other than the one s/he is concentrating in.

## English (Major)

The following paragraphs describe typical patterns of study in the department and indicate the various ways in which a student can, with much opportunity for individual initiative, form a challenging and rewarding major within it.

*Effective Fall 2017*

### Exclusions:

Students who elect a major in English may not also elect a minor in English.

### Advising

Students are encouraged to discuss their academic program and related concerns with an English department advisor. Appointments are scheduled on the English Department's website under academic advising. For questions of immediate concern or general questions about the major, students may speak with the Undergraduate Administrator by phoning 734.764.6330 or by coming to 3187 Angell Hall.

### Peer Advising Program

The English Undergraduate Office offers Peer Advising hours where students can come in and ask questions about the various programs, and declare their major while getting a student's perspective on what it's like to be an English major. Check on the website or in the main office for their advising hours.

### Grade Policies

Students must complete a course with a grade of C- or better to have it count toward the major requirements.

### Prerequisites

ENGLISH 298: Introduction to Literary Studies

### Requirements

**Minimum Credits:** 30

The Department of English Language and Literature offers three main routes toward the major:

### The General Program

Students in the General Program must successfully complete 30 credits in ENGLISH courses. A maximum of six credits of coursework at the 200 level from the approved list of courses may be counted toward the 30 credits required for the major. 200 level courses cannot be used to satisfy the core requirements of the major listed below. These courses must include at a minimum:

- two courses on literature written primarily before 1830, at least one of which must be on literature written primarily before 1642

- one course on literature taken prior to 1900
- one course in American literature
- one poetry course
- one course designated "Identity and Difference"

The department will offer in any one term a considerable range of courses designed to meet these requirements. A list of which courses meet a given requirement will be available each year in the English Undergraduate Office, online at [www.lsa.umich.edu](http://www.lsa.umich.edu), or from an English department advisor.

Approved 200-level courses:

- ENGLISH 203: Intro to Rhetoric
- ENGLISH 201: Readings in U.S. Literatures: "American" and Other Fictions
- ENGLISH 215: Great Women Writers
- ENGLISH 216: Intro to Disability Studies
- ENGLISH 221: Literature Outside the Classroom
- ENGLISH 232: Intro to Visual Culture
- ENGLISH 235: Intro to Autobiography
- ENGLISH 240: Poetry for Non-majors
- ENGLISH 242: Interdisciplinary Studies in English
- ENGLISH 245: Intro to Drama and Theatre
- ENGLISH 250: Intro to Language Studies
- ENGLISH 258: Bible as Literature
- ENGLISH 260: Intro to British Literature
- ENGLISH 267: Shakespeare and his World
- ENGLISH 270: Intro to American Lit
- ENGLISH 274: Intro to Afro-American Lit
- ENGLISH 275: Intro World Lit in English
- ENGLISH 280: Intro to Digital Cultures
- ENGLISH 282: Native American Literature
- ENGLISH 285: Intro to 20th C Lit
- ENGLISH 290: Topics in Lang & Lit
- ENGLISH 292: Themes in Lang & Lit (mini-course)
- ENGLISH 293: Great Works of Lit (mini-course)

Students considering the major in English should elect ENGLISH 298 during the sophomore year. Then, while fulfilling the requirements for the major, they may elect such a pattern of courses as will provide the course of study they find most helpful and satisfying.

### The Creative Writing Program

Students interested in the department's offerings in creative writing should begin with ENGLISH 223, an introduction to the reading and writing of modern poetry and prose fiction and to the workshop

method of critiquing student writing. ENGLISH 223 is a prerequisite to ENGLISH 323: Advanced Creative Writing in Fiction and 324: Advanced Creative Writing in Poetry, but admission into ENGLISH 323 and 324 is based on a portfolio submission. There is a "permission of instructor" restriction on these courses. At the advanced level students may elect (with the instructor's permission) the advanced fiction workshop (ENGLISH 423) or the advanced poetry workshop (ENGLISH 424).

English majors who wish to specialize in the writing of poetry or prose fiction may, in the winter term of their junior year, apply to the Creative Writing Submajor, which is an optional path to a Bachelor of Arts degree in English. Students in the program take the creative writing workshops described above in sequence, and, in their last term, compile a major manuscript of poetry or prose fiction while working closely with the creative-writing faculty in a tutorial reserved for submajors (ENGLISH 428).

The program is small and highly selective; however, students not enrolled in the submajor may still pursue their interest in creative writing by applying to the appropriate upper-level workshops.

Students must complete a course with a grade of C- or better to have it count toward the requirements for the major.

### Constraints

Majors should note that no more than two courses in expository or creative writing may be counted toward the minimum 30 credits at the upper level required for the major, although students may elect any number of such courses, subject to availability of spaces and to *College limits on total elections of courses in any one department*. Also, no more than six upper-level credits of Independent Study may count towards the major. With written prior approval by the undergraduate administrator, courses elected in other departments or programs may on occasion be used as part of a plan for the major. Independent study projects cannot be used to meet Department program requirements.

### Other Department Policies

#### Upper-Level Writing Requirement

Majors in English may meet this requirement by taking ENGLISH 325, 398, 425, 428, or 496. A published list of English- approved courses can be found in 3187 Angell Hall. For those in the Honors and Creative Writing Programs, the writing requirement is met within their curriculum, which culminates in the supervised composition of the senior thesis.

### Honors

#### Honors: The General Program

Joining the English Department's Honors Program means becoming a part of a small, intensely committed group of teachers and students all working toward achieving excellence in the related disciplines of reading, understanding, and writing about texts. Honors courses and the program at large place a premium on discussion, on sustained elaboration of ideas inside and outside the classroom, on conceiving of projects in complex and engaging ways, on learning to do research, and on presenting the fruits of that research in expressive, lucid prose.

Students interested in the Honors Program should apply for admission as soon as possible after the beginning of their sophomore year. Since students generally have not decided to pursue Honors before they have completed the Sophomore prerequisites for the English major (ENGLISH 298), almost all applicants for admission to Honors come in



the winter term of the sophomore year or the fall term of the junior year. Applications are due at the end of the seventh week of each term. Though the program occasionally accepts a few late applicants (i.e., students applying in the winter term of their junior year), admission is more difficult to achieve if students apply late, and students' chances for success in the program are greatest if, before the first term of your senior year, you have taken at least one theory course (preferably ENGLISH 390 or 490) and begun thinking about a possible focus for their thesis. The application consists of a cover sheet; a transcript; a 500-word statement of purpose; and a writing sample. Students must also be maintaining a 3.5 GPA or better in the major.

- Honors students take a course in literary theory, usually ENGLISH 390 or 490. It is recommended that this be done during the student's junior year.
- Two courses from ENGLISH 397 (or 497), 450 or 451.
- Honors students write a thesis of approximately sixty pages in length during the senior year - a project that is designed to be the single most important, most meaningful piece of work students undertake as English majors at the University. Students write most of their thesis in a required year-long course, "Research and Thesis Writing" (ENGLISH 495/496). Students are guided throughout much of their senior year by a faculty advisor chosen early in that year. The completed thesis is due in mid-March of the senior year.
- During graduation weekend, Honors students will participate in an Honors Symposium, at which students make brief presentations of their theses to interested faculty, friends, and family.

#### Honors: Creative Writing

Those students who have earned at least a 3.5 GPA in the major may apply for Creative Writing Honors after they have been accepted to the submajor. Honors will be awarded, as warranted, on the basis of the thesis.

#### Teaching Certificate

English majors in any of the programs above may also apply to be granted a teaching certificate. Students in the General Program must elect, in addition to the pattern of courses there prescribed, a course in composition (normally SWC 300 or 430) and a course in English language (ENGLISH 305, 308, or 406). Honors candidates must elect ENGLISH 305 in addition to the courses required for their program.

The general requirements for a teaching certificate are described elsewhere in this Bulletin, and are available from the School of Education Teacher Education Office, 1228 School of Education Building. A brochure summarizing these requirements is available in the English Office. Application to the certificate program itself must be made through the School of Education. The deadline is January 15 for the following academic term. Please check their website: [www.soe.umich.edu/](http://www.soe.umich.edu/).

## English (Minor)

The English Minor is designed to help students develop a broad understanding of the social, cultural, historical, and formal aspects of English language and literature. It provides a foundation in literary and cultural analysis, develops skills in presenting complex ideas orally and in writing, and develops knowledge of British, American, and Global Anglophone literary traditions.

*Effective Fall 2017*

#### Exclusions:

Students who have declared an English Minor cannot also pursue an English Major or a Creative Writing Minor.

#### Advising

Student seeking to make an advising appointment can schedule an appointment through the following link, <https://webapps.lsa.umich.edu/english/undergraduate/advising/default.asp>

#### Grade Policies

All courses taken in the minor must be C- or better.

The minor GPA will be calculated using all English courses taken toward the minor (including the pre-requisite course, 298).

Students must earn an overall GPA of at least 2.0 in courses taken in the minor.

#### Prerequisites

English 298: Introduction to Literary Studies (minimum grade of C-)

#### Requirements

##### Minimum Credits: 15

English minors must elect a total of 15 credits of coursework including:

##### 1. Upper-Level Core Requirements

Two of the core requirements listed below using two separate courses (6 credits):

Pre-1642  
Pre-1830  
Pre-1900  
American Lit  
Identity/Difference  
Poetry

Courses that may be used to meet these core requirements can be found on the English Department website at <http://www.lsa.umich.edu/english/undergraduate/courses/conReqs.asp>.

##### 2. Elective courses

An additional nine credits which can include:

- English literature courses at the 300/400 level
- Two elective courses (6 credits) may be at the 200-level. Eligible courses are:

ENGLISH 201: Readings in U.S. Literatures: "American" and Other Fictions  
ENGLISH 203: Intro to Rhetoric  
ENGLISH 215: Great Women Writers  
ENGLISH 216: Intro to Disability Studies  
ENGLISH 221: Literature Outside the Classroom  
ENGLISH 232: Intro to Visual Cultures  
ENGLISH 235: Intro to Autobiography  
ENGLISH 240: Poetry for Non-majors  
ENGLISH 242: Interdisciplinary Studies in English  
ENGLISH 245: Intro to Drama and Theatre  
ENGLISH 250: Intro to Language Studies  
ENGLISH 258: Bible as Literature

ENGLISH 260: Intro to British Literature  
ENGLISH 267: Shakespeare and his World  
ENGLISH 270: Intro to American Lit  
ENGLISH 274: Intro to Afro-American Lit  
ENGLISH 275: Intro World Lit in English  
ENGLISH 280: Intro to Digital Cultures  
ENGLISH 282: Native American Literature  
ENGLISH 285: Intro to 20th C Lit  
ENGLISH 290: Topics in Lang & Lit  
ENGLISH 292: Themes in Lang & Lit (mini-course)  
ENGLISH 293: Great Works of Lit (mini-course)

c. One course may be a creative or expository writing course. Creative/expository writing courses include English 223, 225, 229, 323, 324, 325, 327, 328, 423, 424, 425, 427, WRITING 300 or any transferred writing course. **ENGLISH 223, 225, and 229 also count toward the two 200-level course limit.**

#### **Constraints**

1 course (3 credits) from transfer credit or study abroad may be used toward elective minor credits.

## Program in the Environment

The Program in the Environment is an undergraduate degree program housed in the College of Literature, Science and the Arts (LSA). This collaborative venture includes courses taught by faculty in Literature, Science, and the Arts, School of Natural Resources and Environment, College of Engineering, Ford School of Public Policy, Stamps School of Art and Design, Taubman College of Architecture and Urban Planning and School of Public Health. The resulting curriculum presents an expanded range of opportunities for students interested in environmental careers.

### Energy and Science Policy (Minor)

Energy underlies all of our modern technological, social, political, economic and ecological systems. Yet, the general public has little knowledge of the concept of energy and how it is woven into the very fabric of society. On the one hand energy is an abstract idea of physics, and on the other hand it is a material realization in fuels and machines. Energy is obviously visible in the gasoline we consume, less visible in the electricity we use, and almost invisible in a vast array of uses such as in delivery of medical treatment, education, social infrastructure, and public safety. Every academic discipline connects in some way to energy along its many paths from the extraction of fuels and materials to eventual end uses. Hence, the topic of energy can and should act as a medium and vehicle for the exchange of ideas among disparate fields. Ultimately, what we see as “energy” depends on resources extracted from nature and on the impacts that our uses of energy have on nature and the environment. The energy-use trajectory that the world is now tracking will, at some time, asymptotically or catastrophically, bump into fundamental constraints that will reshape the energy landscape. Broadly stated: Are our energy systems sustainable? If not, what could the world do differently?

In our current era, energy is so fundamental to every intellectual and practical endeavor that students should have the opportunity to study systematically energy problems in their various manifestations. Students will learn that “energy problems” are systems problems, in which system-constructs within various disciplines are interconnected across disciplines. The minor in “*Energy Science and Policy*” provides the fundamentals for understanding what energy is and provides students with a coherent and rigorous introduction to the technical, social, and cultural contexts of contemporary problems related to “energy.” Generally, students will come to understand how the pedagogical aims of their chosen discipline – whether through critical writing, quantitative problem solving, or close analysis converge in the intersections of “energy problems.”

*Effective Winter 2016*

#### Advising

Students interested in declaring either a major or a minor must attend an information session. Information sessions are held throughout the Fall and Winter terms. Appointments may be scheduled with Program advisors [on-line](#).

#### Prerequisites

None.

#### Requirements

**Minimum Credits:** 15

This minor requires no fewer than five courses for a total of at least 15 credits, with at least two courses at the 300-level or above.

- Introductory Course (one course; 3 credits minimum)** – students take one, or both, of the following courses that will provide a sound introductory scientific orientation that is fundamental to understanding the basic concepts of energy:
  - ENVIRON 250 / CMLXSYS 250 / PUBPOL 250: Social Systems, Energy, and Policy
  - PHYSICS 210: Energy for the Future
- Topics Courses:** (four courses, and a minimum 12 credits, with at least two courses at the 300-level or above). Students must take at least two courses representing approaches outside of or different from that of their area of concentration (e.g., humanists will have to take two topics courses from outside the humanities).

Select

- two courses from the Energy Economics & Policy group
- two courses from the Energy Production, Extraction & Technology group

OR select

- two courses from one of the above categories
- one course from the other of the above categories
- one Breadth course

#### Energy Economics & Policy

- ARCH 357 / UP 357: Architecture, Sustainability and the City: Ideas, Forces and People Shaping the Built Environment.
- CEE 307 / ENVIRON 407: Sustainable Cities.
- ECON 370 / ENVIRON 375: Environmental and Resource Economics.
- ECON 437: Energy Economics and Policy.
- EHS 588 / ENVIRON 475 / NRE 475: Environmental Law.
- ENVIRON 312 / POLSCI 380 / PUBPOL 312: Environmental Politics and Policy.
- ENVIRON 375 / ECON 370: Environmental and Resource Economics.
- ENVIRON 407 / CEE 307: Sustainable Cities.
- ENVIRON 475 / NRE 475 / EHS 588: Environmental Law.
- GEOG 472 / UP 572: Transportation and Land-Use Planning.
- INTLSTD 401: International Studies Advanced Seminar, section titled “Politics of Energy in the Developing World.”
- NRE 475 / ENVIRON 475 / EHS 588: Environmental Law.
- POLSCI 380 / ENVIRON 312 / PUBPOL 312: Environmental Politics and Policy.

- POLSCI 389: Topics in Contemporary Political Science, section titled "Energy Politics".
- POLSCI 497: Undergraduate Seminar in Comparative and Foreign Government, section titled "Politics of Energy in the Developing World."
- PUBPOL 312 / ENVIRON 312 / POLSCI 380: Environmental Politics and Policy.
- PUBPOL 564: Government Regulation of Industry and Environment.
- UP 357 / ARCH 357: Architecture, Sustainability and the City: Ideas, Forces and People Shaping the Built Environment.
- UP 572 / GEOG 472: Transportation and Land-Use Planning.
- UP 671: Public Policy and Transportation.

#### Energy Production, Extraction & Technology

- AUTO 533 / MECHENG 433: Advanced Energy Solutions.
- CEE 230: Energy and Environment.
- CEE 565 / ESENG 501: Seminars on Energy Systems, Technology and Policy.
- EARTH 344 / ENVIRON 344: Sustainable and Fossil Energy: Options and Consequences.
- EARTH 380 / ENVIRON 380: Mineral Resources, Economics and the Environment.
- EECS 498: Special Topics, section title "Grid Integration of Alternative Energy Sources".
- EECS 598: Special Topics, sections titled "Solar Cell Device Physics" or "Resonant Power Converters".
- ENVIRON 344 / EARTH 344: Sustainable and Fossil Energy: Options and Consequences.
- ENVIRON 380 / EARTH 380: Mineral Resources, Economics and the Environment.
- ENVIRON 404: Cars, Sustainability, and Energy Conversion
- ESENG 501 / CEE 565: Seminars on Energy Systems, Technology and Policy.
- MECHENG 433 / AUTO 533: Advanced Energy Solutions.
- MECHENG 438: Internal Combustion Engines.
- NRE 574 / PUBPOL 519 / RCNSCI 419: Sustainable Energy Systems.
- PHYSICS 406: Statistical and Thermal Physics.
- PUBPOL 519 / RCNSCI 419 / NRE 574: Sustainable Energy Systems.
- RCNSCI 419 / PUBPOL 519 / NRE 574: Sustainable Energy Systems.
- AAS 432: Violent Environments: Oil, Development and the Discourse of Power.
- ANTHRCUL 439: Economic Anthropology and Development.
- AOSS 480 / NRE 480: Climate Change: The Move to Action.
- ARTDES 250: Art, Design and the Environment.
- CEE 265: Sustainable Engineering Principles.
- CHE 230: Material and Energy Balances.
- EARTH 284 / ENVIRON 284: Environmental Geology
- ECON 432: Government Regulation of Industry.
- ECON 445: The Economy of the People's Republic of China.
- ENGLISH 319: Literature and Social Change, section titled "The Literature of Climate Change".
- ENGLISH 320: Literature and the Environment, section titled Ecocriticism
- ENVIRON 221 / HISTORY 222: Global Environmental History.
- ENVIRON 224 / HISTORY 224 / PUBPOL 224: Global Nuclear Proliferation.
- ENVIRON 284 / EARTH 284: Environmental Geology
- ENVIRON 304: Literature and the Environment, section titled Ecocriticism.
- ENVIRON 365: International Environmental Policy.
- ENVIRON 412 / PUBPOL 412: Environmental Values in Public Policy.
- ES 445 / STRATEGY 445: Base of the Pyramid: Business Innovation for Solving Society's Problems.
- GERMAN 326: Intermediate German, section titled "Germany and the Environment"
- HISTORY 222 / ENVIRON 221: Global Environmental History.
- HISTORY 224 / ENVIRON 224 / PUBPOL 224: Global Nuclear Proliferation.
- HISTORY 241: America and Middle Eastern Wars.
- HISTORY 285 / RCNSCI 275: Science, Technology, Medicine, and Society.
- NRE 480 / AOSS 480: Climate Change: The Move to Action.
- POLSCI 359 / AAS 359: African Politics.
- POLSCI 364: Public International Law.
- PUBPOL 224 / HISTORY 224 / ENVIRON 224: Global Nuclear Proliferation.
- PUBPOL 412 / ENVIRON 412: Environmental Values in Public Policy.
- RCNSCI 275 / HISTORY 285: Science, Technology, Medicine, and Society.

#### Breadth Courses

- AAS 359 / POLSCI 359: African Politics.

- STRATEGY 445 / ES 445: Base of the Pyramid: Business Innovation for Solving Society's Problems.

## Environment (Major)

The Program in the Environment trains students to ensure basic scientific literacy, familiarity with advanced problem-solving techniques, and an ability to integrate scientific and social scientific approaches in addressing environmental problems. The program's interdisciplinary approach requires coursework in the natural sciences, social sciences and the humanities. It combines breadth, through exposing students to a variety of disciplines and methodological skills, and depth, through requiring a sequence of courses in one of three specialization areas: Environmental Sciences, Environmental Social Sciences, or Culture and Environment. Majors are required to spend time off campus in an organized field study or a supervised internship.

Students who complete the major in the Environment will earn either a B.S. or an A.B. degree, depending upon their course of study (the B.S. requires 60 credits of courses in science and mathematics). The degree is awarded collaboratively by LSA and SNRE and bears the names of both schools.

The major in Environment is intended to ensure scientific literacy, familiarity with advanced problem-solving techniques, and an ability to integrate scientific and social scientific approaches in addressing environmental problems. It serves students interested in environmental literacy as well as those interested in a wide range of career tracks related to environmental issues.

*Effective Fall 2017*

### Advising

Students interested in declaring either a major or a minor must attend an information session. Information sessions are held throughout the Fall and Winter terms. Appointments may be scheduled with Program advisors on-line at: [/lsa.umich.edu/pite/majors/advising.html](https://lsa.umich.edu/pite/majors/advising.html)

### Prerequisites

Prerequisites need not be completed prior to declaring an Environment major. To ensure a common background and understanding of disciplines relevant to environmental study, students take all of the following (many of these courses also satisfy LSA area distribution):

- One Introductory Interdisciplinary Course** (one of the following):
  - ENVIRON 101 / BIOLOGY 101: Food, Energy, and Environmental Justice
  - ENVIRON 110 / AOSS 171 / BIOLOGY 110 / EARTH 171 / ENSCEN 171 / RCNSCI 110: Introduction to Global Change: The Science Behind Sustainability
  - ENVIRON 111 / AOSS 172 / EARTH 172 / ENSCEN 172 / GEOG 111: Global Change: The Sustainability Challenge
  - ENVIRON 139: First-Year Seminar in the Environment
  - ENVIRON 201 / RCNSCI 202: Ecological Issues
  - ENVIRON 270: Our Common Future
  - CEE 230: Thermodynamics and the Environment
  - CEE 265: Sustainable Engineering Principles
- One Introductory Biology Course:**
  - BIOLOGY 171: Introductory Biology: Ecology and Evolution; or
  - BIOLOGY 195: Introductory Biology (AP)
- One Introductory Geology Course:**
  - EARTH 118: Introductory Geology Laboratory **AND** EARTH 119: Introductory Geology Lectures; or
  - EARTH 116: Introductory Geology in the Field
- One Environmental Social Science Course:**
  - ENVIRON / ORGSTUDY 208: Business and the Natural Environment
  - ENVIRON / RCSSCI 211: Social Sciences and Environmental Problems
  - ENVIRON 235: Economics of Natural Resources and Environment
  - ENVIRON 290: Food: The Ecology, Economics, and Ethics of Growing and Eating

### Requirements

#### Minimum Credits: 32

These courses expand students knowledge of environmental problems and solutions by exposing them to a wide range of natural science, social science, and humanistic disciplines. Students select one course at the 200 level or above in each of the following categories.

- General Ecology** (one of the following):
  - BIOLOGY ENVIRON 281: General Ecology **AND** BIOLOGY / EEB 372: General Ecology Laboratory; or
  - ENVIRON / EEB 381: General Ecology at UM Biological Station; or
  - EARTH / ENVIRON 450: Ecosystem Science in the Rockies at Camp Davis, Wyoming
- Analytics** (one of the following):
  - STATS 250: Introduction to Statistics and Data Analysis
  - STATS 280: Honors Introduction to Statistics and Data Analysis
  - SOC 210: Elementary Statistics
- Culture and Environment** choose one from approved list or in consultation with a department advisor:
  - AAS 409, 432
  - AMCULT 284, 311 *section titled, "Green Indigeneity"*, 373
  - ANTHRIBIO 364, 365, 373
  - ANTHRCUL 256, 328, 408, 439, 440
  - ARCH 209 *section titled "Experiencing Architecture"*, 212, 213, 357, 423

- ARTDES 250
  - ASIAN 257, 258
  - CLARCH 222, 382, 350 *section titled "The Art and Life in Roman Villas"*
  - CLCIV 382
  - EARTH 238
  - ENGLISH 290 *section titled "American Environments: History, Thinking, Reps"*, 317 *section titled "Greek Indigenety"*, 319 *section titled "Literature of Climate Change"*, 328, 346 *section titled "Embodiment / Environment / Community"*
  - ENVIRON 221, 223, 238, 240, 244, 256, 270, 284, 301, 304, 320, 350, 370, 376, 377, 464
  - HISTART 212, 213, 222, 243, 301, 394 *section titled "The Art and Life in Roman Villas"*
  - HISTORY 222, 223, 238, 284, 285, 373
  - ITALIAN 310
  - MOVESCI 241
  - PHIL 224, 240, 355, 356, 359, 361, 366, 376
  - RCHUMS 334 *section titled "Experiencing Architecture"*
  - RCIDIV 305
  - STRATEGY 411, 445
  - UC 254 *section titled "Much Depends on Dinner"*
  - UP 357, 423
  - WOMENSTD 344 *section titled "Embodiment / Environment / Community"*
4. **Natural and Earth Systems Science:**
- choose one 200 level or above Natural Science course or chosen in consultation with the department advisor.  
(NOTE: ENVIRON 201 does NOT count)
5. **Social Science** choose two - one must be 300 level or above:
- ARCH 423
  - ANTHRCUL 256
  - CEE 307
  - COMM 413
  - ECON 330, 360, 370
  - EDCURINS 382
  - EEB 316, 318
  - EHS 588
  - ENVIRON 203, 207, 208, 211, 222, 223, 237, 242, 256, 270, 290, 302, 306, 308, 312, 313, 316, 318, 320, 321, 335, 345, 350, 356, 367, 370, 375, 382, 390, 391, 405, 407, 408, 412, 413, 448, 449, 462, 475, 490

- HISTORY 223, 237
- NRE 449, 475
- ORGSTUDY 203, 208
- POLSCI 331, 380, 394
- PSYCH 384, 385
- PUBPOL 312, 412
- RCIDIV 316, 318, 390
- RCSSCI 211, 222
- SOC 222, 380
- UP 423

6. **Senior Capstone:**

- One course chosen in consultation with the department advisor.

7. **Practical Experience:**

- The experience can be satisfied by an internship or a residential field course that is taken for 3 credits or more.

8. **Specialization:**

- To gain a deeper understanding of applicable skills in one discipline of environmental study, students take three related courses at the 300-level or above, approved by the specialization committee, in one of the following areas: Environmental Science, Environmental Social Science, or Culture and the Environment.

### Honors

The Honors Program is open to all students who have achieved a cumulative grade point average of 3.50 or better. These students are automatically admitted into the Honors Program. (However, completion of the Honors Program requires the student to find a faculty advisor for their research.) Other students may request admission to the Honors Program by completing an application form available from the Program in the Environment office. **The application and faculty recommendation (if needed) must be submitted by December 1 of the junior year.** In order to remain in Honors and also to graduate with any level of Honors, all Honors student must have a cumulative GPA of at least 3.4.

### Honors Course Sequence

- **Junior Year, Fall Term:** Students hoping to pursue the Honors Program meet with the advisor(s) and instructor of the Junior Honors Seminar (ENVIRON 399). Students planning to study abroad will not be able to during the Winter semester of their Junior year.
- **Junior Year, Winter Term:** Junior Honors Seminar (ENVIRON 399). The goals of this 3-credit course are to develop research skills, identify a faculty advisor who will provide guidance and encouragement, and prepare the proposal for the thesis project. Students MAY NOT study abroad during this semester. ENV 399 will not be waived for study abroad

because of the detailed instruction and information the student must gain from this course.

- **Senior Year, Fall and Winter Terms:** Seniors will register for independent study credits (ENVIRON 499) with their advisor during their senior year (6 credits over the Fall and Winter terms). The primary goal of the independent study is to carry out the Honors thesis research. In addition to regular meetings with their advisor, students will also meet monthly with the other Senior Honors students in the winter term. These sessions will be facilitated by the instructor(s) of ENVIRON 399 and provide an opportunity to talk about thesis progress and obstacles, discuss how to present findings in the written document and orally, and other concerns related to the trials and tribulations of getting the thesis done on time.
- **Oral Presentation:** A public oral presentation of a student's thesis research will be arranged by the Program in the Environment staff in consultation with the instructors of ENVIRON 399 and the faculty advisors for ENVIRON 499.

### Teaching Certificate

#### Teacher Certification

For information about teaching certificates, please contact the Program in the Environment.

## Environment (Minor)

The goals of this minor are to enhance the environmental literacy of undergraduates by exposing them to various disciplinary approaches to environmental issues and problems and by providing opportunities for field-based experience and for the acquisition of analytical skills useful in solving environmental problems.

The intended audience is students seeking some measure of environmental literacy or preparing themselves for careers with an environmental dimension.

*Effective Fall 2015*

#### Exclusions:

*A minor in the Environment is not open to students concentrating in the Environment, to students in the School of Natural Resources and Environment, nor to those pursuing a minor in Global Change or minor in Sustainability.*

*Students can either pursue an Academic Minor in the Environment or the Academic Minor in Sustainability, but not both.*

#### Advising

Students wishing to pursue a minor in the Program in the Environment must develop a specific plan for its completion in consultation with the program's academic advisor.

Students interested in declaring either a major or a minor must attend an information session. Information sessions are held throughout the Fall and Winter terms. Students wishing to pursue a minor in the Program in the Environment must develop a specific plan for its completion in consultation with the program's academic advisor. Appointments may be scheduled with Program advisors on-line at: [/lsa.umich.edu/pite/majors/advising.html](http://lsa.umich.edu/pite/majors/advising.html)

#### Prerequisites

None for the Academic Minor *per se*, although individual courses elected to meet the requirements of the Academic Minor may have course prerequisites.

#### Requirements

##### Minimum Credits: 17

At least 17 credits of courses, to be elected from five categories as stated (at least two of the required courses must be at the 300-level or above):

1. **Introductory interdisciplinary courses.** One course chosen from:
  - ENVIRON 110 / AOSS 171 / BIOLOGY 110 / EARTH 171 / ENSCEN 171 / RCNSCI 110: Introduction to Global Change: The Science Behind Sustainability
  - ENVIRON 111 / AOSS 172 / EARTH 172 / ENSCEN 172 / GEOG 111: Global Change: The Sustainability Challenge
  - ENVIRON 201 / RCNSCI 202: Ecological Issues
  - ENVIRON 270: Our Common Future
  - CEE 260: Environmental Principles
2. **Environmental Natural Science.** One course chosen from the list of Environmental Natural Science courses, above.
3. **Environmental Social Science.** One course chosen from the list of Environmental Social Science courses, below.
4. **Culture and Environment.** One course chosen from the list of Culture and Environment courses, below.
5. **Analytics or Field Experience** (one course):
  1. **Field Experience.** The field experience requirement may be satisfied in two ways: by a field course at the UM Biological Station, Camp Davis, or other approved field location; or by an approved off-campus internship that results in academic credit.
  2. **Analytics.** The analytics requirement may be satisfied by electing STATS 250 or SOC 210 or equivalent (STATS 265 or IOE 265).

#### Environmental Social Science Courses for the academic minor.

These courses do not necessarily satisfy the SS distribution requirement.

- ARCH 423
- ANTHRCUL 256
- CEE 307
- COMM 413
- ECON 330, 360, 370
- EDCURINS 382
- EHS 588
- ENVIRON 203, 207, 208, 211, (221 prior to Fall 2016), 222, 223, 237, 242, 256, 270, 290, 302, 306, 308, 312, 313, 316, 318, 320, 321, 335, 345, 350, 356, 360, 361, 365, 367, 370, 375, 382, 390, 391, 405, 407, 408, 412, 413, 448, 449, 462, 475, 490

- HISTORY (222 prior to Fall 2016), 223, 237
- NRE 449, 475
- ORGSTUDY 203, 208
- POLSCI 331, 380, 394
- PSYCH 384, 385
- PUBPOL 312, 412
- RCIDIV 316, 318, 390
- RCSSCI 221, 222
- SOC 222, 330
- UP 423

- UP 357, 423
- WOMENSTD 344 section titled *"Embodiment / Environment / Community"*

## Food and the Environment (Minor)

The Food and the Environment Minor is an interdisciplinary program of study with courses addressing questions of food production, consumption, and policy in relation to the environment, human health, and equity.

Today's global food system produces unprecedented quantities of food. Nevertheless, the World Health Organization estimates that over one billion people lack adequate food to satisfy the minimum standards of nutrition, despite more than adequate global supplies, a perplexing pattern that has been evident for many years. An even more perplexing problem is the irony that obesity has become a major health problem for some, even as hunger continues to plague others. Moreover, the modern agricultural system that developed during the past century is increasingly recognized as environmentally unsustainable, in many cases causing environmental degradation and substantial losses in biological diversity. Finally, for the consumers, food safety has emerged as a critical issue and for the producers -- farmers and farm workers -- workplace safety and low compensation threaten the sustainability of their livelihoods.

A global food system that simultaneously produces hunger and obesity, that generates significant collateral environmental degradation and that compromises the well-being of consumer and producer alike, challenges the academic community to engage in serious analysis and action. This challenge has been partially met with the emergence of a new paradigm that emphasizes sustainability and social equity rather than profit and production at its core. Contributions to this new paradigm are emerging from many sectors of society, especially at the grassroots level (e.g., local food systems, increased demand for organic and fair-trade products, reinvigoration of inner cities through urban agriculture, new business models such as "community supported agriculture," etc.). The university is the ideal place to forge the intellectual foundation that will inform and guide the construction of a coherent path toward a sustainable and equitable food system, which helps to reinvigorate rural and urban communities, promote environmental protection and enhance economies at state, national and international levels.

This minor is intended for students with a keen interest in expanding their study of sustainable and equitable ways to produce and deliver nutritious food so as to improve people's health and livelihoods. The minor consists of courses analyzing the current food system across a range of disciplines, documenting some of its more unsustainable characteristics and proposing alternatives.

*Effective Fall 2015*

### Advising

Students interested in declaring either a major or a minor must attend an information session. Information sessions are held throughout the Fall and Winter terms. Appointments may be scheduled with Program advisors on-line at: [/lsa.umich.edu/pite/minors/advising.html](http://lsa.umich.edu/pite/minors/advising.html)

PitE staff and faculty advisors working in tandem with faculty advisors in other units will help students navigate the Food and the Environment Minor.

### Prerequisites

**Culture and Environment Courses** for the academic minor. (Fall 2014 - Current | Previous)

- AAS 409, 432
- AMCULT 284, 311 section titled *"Green Indigeneity"*, 373
- ANTHRIBIO 364, 365, 373
- ANTHRCUL 256, 328, 408, 439, 440
- ARCH 209 section titled *"Experiencing Architecture"*, 212, 213, 357, 423
- ARTDES 250
- ASIAN 257, 258
- CLARCH 222, 382, 350 section titled *"The Art and Life in Roman Villas"*
- CLCIV 382
- EARTH 238
- ENGLISH 290 section titled *"American Environments: History, Thinking, Reps"*, 317 section titled *"Green Indigeneity"*, 319 section titled *"Literature of Climate Change"*, 328, 346 section titled *"Embodiment / Environment /Community"*
- ENVIRON 221, 223, 238, 240, 244, 256, 270, 284, 301, 304, 320, 350, 370, 376, 377, 464
- HISTART 212, 213, 222, 243, 301, 394 section titled *"The Art and Life in Roman Villas"*
- HISTORY 222, 223, 238, 284, 285, 373
- ITALIAN 310
- MOVESCI 241
- PHIL 224, 240, 355, 356, 359, 361, 366, 376
- RCHUMS 334 section titled *"Experiencing Architecture"*
- RCIDIV 305
- STRATEGY 411, 445
- UC 254 section titled *"Much Depends on Dinner"*



None.

## Requirements

### Minimum Credits: 15

The Food Systems Minor consists of no less than 5 courses for a total of at least 15 credits, at least two courses must be 300 -level or above, from the following categories as stated:

1. **Introductory Courses.** Select at least one of the following as an orientation to the minor:
  - BIOLOGY 101 / ENVIRON 101: Food, Energy, and the Environment
  - ENVIRON 270: Our Common Future: Ecology, Economics and Ethics of Sustainable Development
  - ENVIRON 290: Food: The Ecology, Economics, and Ethics of Growing and Eating
  - UC 254: Sophomore Interdisciplinary Seminar, *section titled "Much Depends on Dinner"*
2. **Topical Courses.** Three courses chosen from the following:
  - Any course listed above not used to satisfy the introductory or synthetic course requirement
  - ANTHR BIO 364: Nutrition and Evolution
  - ANTHRCUL 458: Topics in Sociocultural and Linguistic Anthropology, *section titled "Anthropology of Food and Eating"*
  - ARCH 357 / URP 357: Architecture, Sustainability and the City: Ideas, Forces and People Shaping the Built Environment
  - BIOLOGY 102: Practical Botany
  - CLARCH 382 / CLCIV 382: Food in the Ancient World: Subsistence and Symbol
  - CLCIV 382 / CLARCH 382: Food in the Ancient World: Subsistence and Symbol
  - EARTH 154: Ocean Resources
  - EARTH 159: Toward a Sustainable Human Future
  - EARTH 333: Inexhaustible Seas?: Marine Resources and Environmental Issues
  - EHS 540: Maternal and Child Nutrition
  - EHS 642: Community Nutrition
  - ENVIRON 242: Topics in Environmental Social Science, *section titled "2.5 Million Years of Human Foods and Foodways: A Framework for Understanding Modern Diets"*
  - ENVIRON 302: Topics in Environmental Social Science, *section titled "The Measure of Our Meals"*
  - ENVIRON 390 / RCIDIV 390: Environmental Activism: Citizenship in a Republic
  - ENVIRON 421: Restoration Ecology
  - HONORS 252: Honors Natural Sciences Seminar, *section titled "2.5 Million Years of Human Foods and Foodways: A Framework for Understanding Modern Diets"*
3. **Synthetic Courses.** Select at least one of the following courses, which synthesize approaches and knowledge bases relevant to the issue, as a conclusion to the minor:
  - ANTHRCUL 458: Topics in Sociocultural and Linguistic Anthropology, *section titled "Food, Politics, and Environment"*
  - ARTDES 300: Elective Studios, *section titled "Sustainable Food System Design"*
  - EEB 498: The Ecology of Agroecosystems
  - RCIDIV 316 / EEB 316 / ENVIRON 316: Introduction to Food Systems  
*or*  
RCIDIV 318 / EEB 318 / ENVIRON 318: Food, Land, and Society

**Related Courses.** The Program in the Environment will provide students with a list of "cognate" or related courses that, while not labelled or primarily described as food systems courses, would nonetheless be of keen interest to our minors.

## Sustainability (Minor)

Sustainability, although dealing directly and intimately with environmental issues, has as its core goal the development of systems of human behavior to enable both current and future generations to maintain a quality of life that is both productive and pleasing. To achieve such a goal requires an interdisciplinary approach to answer a variety of questions such that human needs and desires can best be met:

- How do groups and individuals compete or cooperate in the distribution of scarce resources? How can open, fair and effective governance structures be better developed and implemented to promote sustainable consumption?
- How can economies be modified to incorporate the value of ecosystem services critical for human well-being? What future business models can be developed that more quickly identify and respond to human needs while simultaneously minimizing consumption and maximizing wealth generation?
- How do various environments at different length scales (local, regional, continental, and global) respond to anthropogenic alterations due to resource consumption and waste

generation? What is the time scale for such alterations to become visible, and perhaps irreversible? How can human societies best adapt to such changes?

- How do natural systems respond to changing anthropogenic inputs? What are the determinants of sustainable yield? What feedback cycles between natural and human systems determine health and welfare of humans and their domesticated biota?
- What is the role of technology and design in meeting sustainability goals, particularly in urban environments where the majority of the human population currently lives? How can goods and services best be provided such that a high standard of living can be achieved while minimizing resource use and waste generation?

The objectives of the sustainability minor are to:

1. educate students from across campus on interdisciplinary approaches of historic and emergent sustainability problems
2. engage students in team projects examining real-world problems both on and off-campus
3. provide students practical experiences/leadership experiences that enable them to integrate their skills to address complex sustainability problems.

As part of the minor activities, the challenges of crafting a suitable definition of sustainability will be highlighted. This will be part of developing understanding of the need for clear and effective communication across disciplines, which will be stressed to ensure effective teamwork is pursued such that the interdisciplinary whole is greater than the sum of individual disciplinary efforts.

*Effective Winter 2012*

#### Exclusions:

*Students can either pursue an Academic Minor in the Environment or the Academic Minor in Sustainability, but not both.*

*A minor in Sustainability is not open to students in the School of Natural Resources and Environment, nor to those pursuing a minor in the Environment.*

*Students who are electing a minor in Sustainability are excluded from earning the Sustainability Scholars Certificate (i.e. Supplemental Studies in Sustainability).*

#### Advising

Students interested in declaring either a major or a minor must attend an information session. Information sessions are held throughout the Fall and Winter terms. Appointments may be scheduled with Program advisors on-line at: [www.lsa.umich.edu/pite/academics/advising](http://www.lsa.umich.edu/pite/academics/advising)

Students wishing to pursue a minor in the Program in the Environment must develop a specific plan for its completion in consultation with the program's academic advisor.

#### Prerequisites

None for the minor *per se*, although individual courses elected to meet the requirements of the minor may have course prerequisites.

#### Requirements

**Minimum Credits:** 18

1. **Introductory course:** ENVIRON 207: Sustainability and Society.
2. **Practical/Field Experience Course:** Students pursuing the Academic Minor in Sustainability are required to spend time off-campus participating in a pre-approved Internship or Field Experience/Study Abroad Course. This provides students with an opportunity to have greater exposure to sustainability issue(s) and develop greater skills in identifying and helping to resolve current and emerging sustainability issue(s).

The following courses have been pre-approved, but students may petition other courses to meet this requirement prior to enrollment, with approval granted by PitE if the course is deemed to have suitably focused on sustainability issues. *Any petitions must be received and approved before enrolling in these courses.* Courses with emphasis on basic aspects of environmental, social, and natural sciences and humanities are not acceptable to meet this requirement.

- EARTH 344 / ENVIRON 344: Sustainable and Fossil Energy: Options and Consequences
  - ENVIRON 302: Topics in Environmental Social Science, section titled "*Sustainable Neighborhoods: Experiential Learning and Active Engagement in Detroit*"
  - ENVIRON 398: Environment Internship Program
  - ENVIRON 344 / EARTH 344: Sustainable and Fossil Energy: Options and Consequences
  - STDABRD 303: UM at Institute for Central American Development Studies, San Jose, Costa Rica
  - STDABRD 308: UM at EcoQuest New Zealand
  - STDABRD 358 UM/CIC Political Science Internships in British Government and Politics, London, England
  - STDABRD 452: UM at St. Peter's College, Oxford, England
  - STDABRD 471: UM at Middle East Technical University, Ankara, Turkey
3. **Capstone Course /Design Experience.** At least one upper-division course addressing major sustainability issues in settings with small sections emphasizing discussion and drawing on interdisciplinary experiences of students.
    - CEE 307 / ENVIRON 407: Sustainable Cities
    - ENVIRON 302: Topics in Environmental Social Science, section titled "*Sustainable Neighborhoods: Experiential Learning and Active Engagement in Detroit*"
    - ENVIRON 391 / RCIDIV 391: Sustainable Campus
    - ENVIRON 401: Modeling Human-Natural Systems
    - ENVIRON 404: Cars, Energy, and Chemistry
    - ENVIRON 407 / CEE 307: Sustainable Cities
    - RCIDIV 391 / ENVIRON 391: Sustainable Campus
  4. **Distribution Requirement:** Students must take courses from a pre-approved in at least three of five areas (see below).

Courses with emphasis on basic aspects of environmental social and natural sciences and humanities are not acceptable to meet these requirements.

*Distribution Courses:*

**1. Society, Culture, Justice and Citizenship**

- AMCULT 496: Social Science Approaches to American Culture, *section titled "American Values and Sustainability"*
- ANTHRCUL 256 / ENVIRON 256: Culture, Adaptation and Environment
- ANTHRCUL 439: Economic Anthropology and Development
- EDCURINS 382 / ENVIRON 382: Intro to Environmental Education and Sustainable Development
- ENGLISH 320: Literature and the Environment, or ENVIRON 377: Literature and the Environment
- ENVIRON 211: Social Sciences and Environmental Problems
- ENVIRON 222: Introduction to Environmental Justice
- ENVIRON 256 / ANTHRCUL 256: Culture, Adaptation and Environment
- ENVIRON 304: Topics in Culture and Environment
- ENVIRON 320: Environmental Journalism: Reporting about Science, Policy and Public Health
- ENVIRON 360 / PSYCH 384: Behavior and Environment
- ENVIRON 361 / PSYCH 385: The Psychology of Environmental Stewardship, or NRE 561: The Psychology of Environmental Stewardship
- ENVIRON 376: Environmental Ethics
- ENVIRON 377: Literature and the Environment, or ENGLISH 320: Literature and the Environment
- ENVIRON 382 / EDCURINS 382: Intro to Environmental Education and Sustainable Development
- NRE 501: Grad Experimental, *section titled "Justice Issues in Conservation and Sustainability"*
- NRE 561: The Psychology of Environmental Stewardship, or
- ENVIRON 361 / PSYCH 385: The Psychology of Environmental Stewardship
- PHIL 240: Environmental Ethics
- PHIL 355: Contemporary Moral Problems
- PSYCH 384 / ENVIRON 360: Behavior and Environment

- PSYCH 385 / ENVIRON 361: The Psychology of Environmental Stewardship, or NRE 561: The Psychology of Environmental Stewardship
- SOC 415: Culture and Consumption

**2. Business and Economics**

- BIT 445 / STRATEGY 445: Base of the Pyramid: Business Innovation for Solving Society's Problems
- EARTH 380 / ENVIRON 380: Mineral Resources, Economics, and the Environment
- ENGR 390: Special Topics, *section titled "Social Entrepreneurship"*
- ENGR 521: Clean Tech Entrepreneurship
- ENVIRON 380 / EARTH 380: Mineral Resources, Economics, and the Environment
- SOC 315: Economic Sociology
- STRATEGY 310: World Economy
- STRATEGY 411: The Corporation in Society
- STRATEGY 445 / BIT 445: Base of the Pyramid: Business Innovation for Solving Society's Problems

**3. Public Policy, Urban Planning, and Law**

- AAS 426: Urban Redevelopment and Social Justice
- AOSS 480 / NRE 480: Climate Change: The Move to Action
- ARCH 423 / ENVIRON 370 / UP 423: Introduction to Urban and Environmental Planning
- CMLXSYS 391 / POLSCI 391: Applied Complex Systems: Emergent Challenges
- EEB 318 / ENVIRON 318 / RCIDIV 318: Food, Land and Society
- EHS 588 / ENVIRON 475 / NRE 475: Environmental Law
- ENVIRON 270: Our Common Future - The Ecology, Economics and Ethics of Sustainable Development
- ENVIRON 306: Global Water
- ENVIRON 312 / POLSCI 380: Environmental Politics and Policy
- ENVIRON 318 / EEB 318 / RCIDIV 318: Food, Land, and Society
- ENVIRON 350: The Built Environment: Introduction to Landscape Change
- ENVIRON 365: International Environmental Policy
- ENVIRON 370 / ARCH 423 / UP 423: Introduction to Urban and Environmental Planning
- ENVIRON 405: Urban Sprawl: Policy and Politics
- ENVIRON 412: Environmental Values in Public Policy

- ENVIRON 449 / NRE 449: Organizational Theory and Change
- ENVIRON 475 / EHS 588 / NRE 475: Environmental Law
- NRE 449 / ENVIRON 449: Organizational Theory and Change
- NRE 475 / ENVIRON 475 / EHS 588: Environmental Law
- NRE 480 / AOSS 480: Climate Change: The Move to Action
- NRE 501: Grad Experimental, *section titled "Urban Agriculture"*
- PHYSICS 481 / PUBPOL 481: Science, Technology, and Public Policy
- POLSCI 380 / ENVIRON 312: Environmental Politics and Policy
- POLSCI 391 / CMLXSYS 391: Applied Complex Systems: Emergent Challenges
- PUBPOL 201: Systematic Thinking About Problems of the Day
- PUBPOL 481 / PHYSICS 481: Science, Technology, and Public Policy
- RCIDIV 302: Advanced Issues in Science, Technology, Medicine, and Society, *section titled "Environmental Literature/Social Justice"*
- RCIDIV 318 / ENVIRON 318 / EEB 318: Food, Land, and Society
- UP 423 / ARCH 423 / ENVIRON 370: Introduction to Urban and Environmental Planning
- UP 425: Urban Systems

#### 4. Natural Sciences & Public Health

- AAS 409 / ANTHRCUL 408: Maternal/Child Health and Environmental Pollution in Africa
- ANTHRCUL 408 / AAS 409: Maternal/Child Health and Environmental Pollution in Africa
- EARTH 380 / ENVIRON 380: Mineral Resources, Economics, and the Environment
- EHS 500: Principles of Environmental Health Science
- ENVIRON 310: Toxicology: The Study of Environmental Chemicals and Disease
- ENVIRON 317: Conservation of Biological Diversity
- ENVIRON 380 / EARTH 380: Mineral Resources, Economics, and the Environment
- HMP 200 / PUBHLTH 200 / PUBPOL 210: Health and Society: Introduction to Public Health
- PUBHLTH 200 / HMP 200 / PUBPOL 210: Health and Society: Introduction to Public Health
- PUBPOL 210 / PUBHLTH 200 / HMP 200: Health and Society: Introduction to Public Health

#### 5. Technology, Engineering, and Design

- ARCH 357 / UP 357: Architecture, Sustainability, and the City: Ideas, Forces, and People
- ARTDES 250: Art-Design Perspectives III: Technology and the Environment
- AUTO 533 / MECHENG 433: Advanced Energy Solutions
- CEE 265: Sustainable Engineering Principles
- CEE 567 / ESENG 567: Energy Infrastructure Systems
- CMLXSYS 250 / PUBPOL 250: Social Systems, Energy, and Public Policy
- ESENG 567 / CEE 567: Energy Infrastructure Systems
- ENVIRON 309: GIS Explorations of the Past, Present, and Future
- ENVIRON 367: Global Enterprise and Sustainable Development
- MECHENG 433 / AUTO 533: Advanced Energy Solutions
- NRE 574 / PUBPOL 519 / RCNSCI 419: Sustainable Energy Systems
- PUBPOL 250 / CMLXSYS 250: Social Systems, Energy, and Public Policy
- PUBPOL 519 / NRE 574 / RCNSCI 419: Sustainable Energy Systems
- RCNSCI 419 / NRE 574 / PUBPOL 519: Sustainable Energy Systems
- UP 357 / ARCH 357: Architecture, Sustainability and the City: Ideas, Forces, and People

#### Constraints

At least 9 of the 18 credits must be at the 300-level or above.

# Center for European Studies

## Modern European Studies (Minor)

The minor in Modern European Studies is open to students with any kind of academic background who wish to better understand European societies from a variety of disciplinary perspectives. After gaining a solid knowledge of European history, students can branch out in many directions: they can further explore historical processes, delve into economic problems, investigate social relations, or examine Europe's cultural achievements and conflicts, among other possibilities. The minor encourages a broad understanding of Europe, both geographically and thematically. With the European Union now extending from Portugal to the Russian borderlands, and with global processes reconfiguring Europe's relationships with the rest of the world, the minor offers a unique opportunity for students to familiarize themselves with an enormously diverse continent that is constantly re-examining its roots and discussing its future.

Effective Fall 2010

### Advising

Undergraduate advisors at the International Institute are available to meet with undeclared students who would like to learn more about the program, and also with current majors and minors who would like to discuss course selection, degree requirements, major/minor releases, and other matters of concern. Appointments can be made through our online appointment calendar by clicking on: [meet with an advisor](#). Information on all of our undergraduate programs and Walk-In Advising hours can also be found on our website: [here](#). The International Institute's Undergraduate Advising Office is currently located at 1080 South University Avenue, Suite 2660.

### Prerequisites

Fourth-term proficiency in a language of the European Union (other than English) or other European language by permission of the advisor.

### Requirements

Minimum Credits: 15

1. **Modern European history** : HISTORY 318 or 319.
2. **Elective courses**: Three courses chosen in consultation with, and approved by, the CES academic advisor, from one of the following tracks:
  1. **Politics, Economy, and Society of Europe and the EU**
    - One upper-level course on modern European or EU politics, society, or economics.
    - Two additional social science courses on modern Europe.
  2. **European Arts and Culture**
    - One upper-level course on art, literature, or culture of modern Europe
    - Two additional humanities courses on modern Europe

3. **Capstone**: A fourth elective course (3 credits), chosen at the discretion of the student and the advisor and taken during the final two academic terms of study, that offers an opportunity to synthesize what the student has learned about modern Europe. It should involve researching and writing a paper of at least 12 pages in length. Possible themes include EU expansion, colonialism/post-colonialism, economic development, migration and immigration, European identity, and European literary traditions.

Courses must be distributed over at least three of the following fields: anthropology, economics, history, history of art, literature, music, philosophy, political science, screen arts and cultures, and sociology

### Constraints

Students may not use more than one course to meet the requirements of both a plan for the major and a minor.

No course may be used to satisfy the requirements of more than one minor.

At least two courses must be upper-level (300 or above).

# Germanic Languages and Literatures

## German (Major)

Germany has emerged as the strongest economy in Europe, and the State of Michigan has especially deep economic ties to Germany: Thus German is one of the most important languages for business and engineering. German is also centrally important for gaining a first-hand, fundamental knowledge of the aesthetic, philosophical, and scientific foundations of modern thought. By a wide margin, German is the most frequently required or recommended academic language.

At every level of our language program, we strive to appeal to the cognitive abilities and intellectual curiosity of our students. Our language courses focus systematically on the development of all four basic language skills (listening, speaking, reading, and writing), while emphasizing context and meaning at all levels and in all spheres of the language acquisition process. It is fundamental to our program that all language courses encourage students to explore other world-views and learn to think critically about culture.

The goals for the first two years of language study include increasing the level of proficiency in beginning and intermediate language students and meeting the needs and interests of the majority of students so that they will find the language requirement stimulating and useful. We believe that language learning is and should be enjoyable and stimulating, and we hope that our courses live up to this. Our special topics courses (GERMAN 232) are meant to provide an introduction to the discourse and substance of various disciplines in German and thus become stepping stones to coursework outside of the German major proper. These special topics include courses on German politics and economics, history, music, art, anthropology, film, engineering, and mathematical and scientific German. Upon completion of the fourth-term course, students are strongly encouraged to pursue an internship or study abroad in Germany. The German department and the Office of International Programs provide extensive assistance to students interested in doing this: students who go abroad each year come back excited about their experience and speak excellent German.

Intermediate and advanced courses are designed both to enhance language skills and to explore central issues in all areas of German Studies. These courses are open not just to majors and minors but also to all students who meet prerequisites regardless of major area.

Students who enter the University with a background in the German language are strongly urged to continue their study of the language without interruption during their first and second years.

The objectives of the major in German are:

1. to develop facility in the use of German;
2. to provide an integrated knowledge of major German writers in various disciplines; and
3. to gain insight into all aspects of German culture.

The major in German provides valuable background for work in all areas of today's global economy and in the traditional areas of application of language study, such as international relations, teaching, translating, and the tourism industry. Consequently, dual majors in German and another subject (History, Political Science, etc.) are strongly encouraged.

*Effective Winter 2017*

### Advising

*German Major* — A plan for the major in German is developed in consultation with and must be approved by [Karl-Georg Federhofer](mailto:Karl-Georg.Federhofer@umich.edu) ([kallimz@umich.edu](mailto:kallimz@umich.edu)) or [Andrew Mills](mailto:Andrew.Mills@umich.edu) ([ajmills@umich.edu](mailto:ajmills@umich.edu)), the department advisors. Appointments are scheduled online at [www.lsa.umich.edu/german/undergrad/advising](http://www.lsa.umich.edu/german/undergrad/advising).

German Department faculty are also available to students during regularly scheduled office hours which are posted on the bulletin board outside 3110 Modern Languages Building.

*German Minors* — Students wishing to pursue a minor in German Studies must develop a specific plan for its completion in consultation with [Kalli Federhofer](mailto:Kalli.Federhofer@umich.edu) or [Andrew Mill](mailto:Andrew.Mill@umich.edu), the department advisors. Appointments are scheduled online at [www.lsa.umich.edu/german/undergrad/advising](http://www.lsa.umich.edu/german/undergrad/advising).

*Scandinavian Minor* — Students wishing to pursue a minor in Scandinavian Studies must develop a specific plan for its completion in consultation with [Johanna Eriksson](mailto:Johanna.Eriksson@umich.edu), [johannae@umich.edu](mailto:johannae@umich.edu).

### Grade Policies

Students must earn a grade of C- or better in all required courses.

### Prerequisites

GERMAN 230, 232, RCLANG 291, or the equivalent (AP/IB score, placement test, transfer credits).

### Requirements

#### Minimum Credits: 30

30 credits beyond GERMAN 232 must include GERMAN 325 or 326, three 300-level courses; GERMAN 425 or 426, three 400-level courses; and at least two additional GERMAN courses numbered GERMAN 300 or higher.

### Other Department Policies

#### Placement Test and Retroactive Credit

Students with high-school credit for German who intend to complete the A.B./B.S. language requirement in German must take a placement test administered by Germanic Languages. The placement test is advisory: students may attempt a higher course than their placement indicates without departmental permission, but must obtain departmental permission to take a lower-level course than their score indicates. LSA students who have attained fourth-term proficiency (GERMAN 232 or the equivalent) are considered to have satisfied the language requirement and may elect more advanced courses. LSA students whose first German course at the U of M is GERMAN 232 are normally eligible for four additional retroactive credits if they complete the course with a grade of "B" or better. Students whose first course is at or above the 300-level are normally eligible for 8 additional retroactive credits. For details, consult the [Guidelines for Retroactive Credits](#) on this website.

Questions regarding placement and the placement test should be directed to Professor [Hartmut Rastalsky](mailto:Hartmut.Rastalsky@umich.edu).

### Information about graduate opportunities and careers

Information about graduate opportunities and careers specifically available to students majoring or minoring in German may be obtained from the Department office.

### Residency

A minimum of 15 of the required 30 credits must be taken either in residence at Michigan or through a study abroad program affiliated with the University of Michigan.

### Honors

In meeting the requirements stated above, students admitted to the Honors major must include GERMAN 491 and 492 (Honors proseminar and thesis). Completion of preliminary work is a prerequisite to acceptance in the Honors major in German. Admission is granted to qualified students at the end of the junior year. Students must maintain a GPA of 3.7 or higher in German and an overall GPA of 3.4 or higher.

For further information, consult [Karl-Georg Federhofer](#) ([kallimz@umich.edu](mailto:kallimz@umich.edu)) or [Andrew Mills](#) ([ajmills@umich.edu](mailto:ajmills@umich.edu)).

### Teaching Certificate

To secure departmental recommendation for a teaching major, students have to complete a minimum of 34 credits. For a list of the requirements, students should go to: [www.soe.umich.edu/files/secondary\\_german\\_major\\_current.pdf](http://www.soe.umich.edu/files/secondary_german_major_current.pdf). We strongly recommend that students enroll in GERMAN 531 (Fall). To meet the requirements for a teaching minor in German, students should complete GERMAN 325 or 326, any two courses selected from among GERMAN 381, 382, 383, 384, 385, and eight additional credits of senior work (GERMAN 425, 426 and 531 are particularly recommended).

All teaching certificate candidates should consult [Karl-Georg Federhofer](#) ([kallimz@umich.edu](mailto:kallimz@umich.edu)) or [Andrew Mills](#) ([ajmills@umich.edu](mailto:ajmills@umich.edu)).

## German Studies (Minor)

The minor in German Studies provides students with an opportunity to gain and demonstrate competence in the German language above and beyond the level specified by the College language requirement. It also provides an opportunity for students to gain a deeper knowledge of a specific topic within the overarching discipline of German studies.

*Effective Winter 2017*

### Exclusions:

*A minor in German Studies is not open to students with a German major*

### Advising

Students wishing to pursue a minor in German Studies must develop a specific plan for its completion in consultation with [Kalli Federhofer](#) or [Andrew Mills](#), the department advisors. Appointments are scheduled online at [www.lsa.umich.edu/german/undergrad/advising](http://www.lsa.umich.edu/german/undergrad/advising).

### Grade Policies

Students must earn a grade of C- or better in all required courses.

### Prerequisites

GERMAN 221, 231, RCLANG 191, or the equivalent (AP/IB score, placement test, transfer credits).

### Requirements

### Minimum Credits: 18

18 credits of courses at the level of GERMAN 230 or 232 or higher are required. The 18 credits must include either GERMAN 325 or 326, and at least four courses within the 18 credits must be taught in German.

### Constraints

- At least one of the courses must be numbered 400 or above.
- AP/IB credits will count as prerequisites only and cannot count toward the 18 credits of the German minor.
- 4 credits from GERMAN 230/RCLANG 291 will count toward the German minor.

## Scandinavian Studies (Minor)

Scandinavian countries have made important contributions to Western civilization, from the Sagas of the medieval period to the pioneers of modern drama, Ibsen and Strindberg, the children's literature of Astrid Lindgren, cinema, design, and other art forms. Scandinavian thinkers have also made crucial contributions to the development of the social welfare state, biotechnology, and engineering. Scandinavian companies such as Nokia, IKEA, and ABB are a major presence in international business, and it is a little-known fact that Sweden invests a higher percentage of its GDP in research than any other country in the world, including the U.S. Sweden is the third-largest exporter of music. According to the United Nations, the Scandinavian countries rank highest in the world in quality of life, and they offer revealing comparisons with other industrial and post-industrial societies. The study of these contributions deserves to be strongly represented at a great research university such as the University of Michigan. We are proud to recall that the Swedish diplomat Raoul Wallenberg, who saved tens of thousands of Hungarian Jews during the Holocaust, was a University of Michigan alumnus. The Scandinavian program offers courses that take the pan-Scandinavian view in literature, history, culture, society, architecture, and the arts, plus courses that focus in depth on Swedish language and literature. Opportunities to study at the University of Uppsala, as well as Stockholm University, during a semester or year abroad program and to secure a summer internship in a Scandinavian country further enhance students' career options for graduate study, teaching, international business, or non-profit work. Students enrolled in the fourth-term Swedish course have the opportunity to travel to Sweden as a group on a study trip over Spring Break each year.

*Effective Winter 2014*

### Advising

Students wishing to pursue a minor in Scandinavian Studies must develop a specific plan for its completion in consultation with [Johanna Eriksson](#), [johanna@umich.edu](mailto:johanna@umich.edu).

### Grade Policies

Students must earn a grade of C- or better in all required courses. (*Effective Winter 2017*)

### Prerequisites

SCAND 234 or equivalent, as determined by the Departmental placement examination.

### Requirements

### Minimum Credits: 15

At least 15 credits and five courses, to be chosen from the following categories as stated below.

1. **Required Scandinavian courses:** SCAND 325, 331, and 375.
2. **Electives:** Two courses chosen from among:
  - SCAND 351, 421, 430, 442, 460, 480.
  - Appropriate (Scandinavian topic) sections of:  
ENGLISH 407, SAC 330, and SAC 441.
  - PHIL 371.



# Graham Sustainability Institute

## Sustainability Scholars Program (Supplemental Study Program)

The USSP accepts up to 30 high-performing sophomores each year to pursue an 11-credit course sequence and related co-curricular activities during their junior and senior years. The program uses a cohort model emphasizing leadership development and skill building for professional development and organizational change across traditional disciplinary boundaries. It provides a dimension in sustainability that can be added to majors and minors in any School or College. The USSP teaches leadership and social change skills to a small, high-performing group of students, providing professional development and mentorship opportunities to help launch their careers. The USSP's strong cohort model is designed to create engagement across majors and programs and develop a base of social support and a strong network for aspiring sustainability leaders.

The USSP is designed to prepare future leaders to help solve the "wicked" problems that comprise the grand challenge of sustainability. The major environmental and interrelated social sustainability challenges facing society are so complex that solutions will not result from traditional disciplinary approaches. The underlying premise is that solutions to global unsustainability require a new generation of leaders who embrace complexity, interconnectedness, uncertainty, and change. To develop these skills, the program features leadership training combined with organizational change theory and practice. The strong cohort model focuses on interdisciplinary thinking and action for sustainability. Scholars are challenged and encouraged to see issues from multiple perspectives through exploring natural, social, economic, political, and technological aspects of complex sustainability issues. Students apply the knowledge they gain to real-life sustainability challenges, harnessing advanced critical thinking and problem solving skills. In an interconnected world of rapidly increasing population, resource scarcity and massive information flows, addressing sustainability will require extraordinary new leadership that responds to the imperatives of declining natural and social capital with a rethinking of people and organizations. This rethinking will be based in systems, values, adaptation, resilience, collaboration and complexity. The USSP is designed specifically to provide training in this critical area.

Students must have a minimum G.P.A. of 3.3 at the time of application. To apply, students submit a personal statement (500 words or less), two references (at least one from a U-M instructor), a resume/c.v., and a transcript. An ad hoc committee formed with the advice of the Graham Institute Executive Committee reviews applicants based on their academic qualifications, previous experience related to sustainability, strength of their personal statement, and reference letters. Desire for diversity and interdisciplinary balance within the cohort is a significant consideration. The USSP accepts up to 30 students per year for the two year program.

### Academic Requirements

The backbone of the Graham Sustainability Scholars program is our nine-credit course of study which includes:

- **UC 427:** Sustainability Leadership Development (1 credit; Offered in Fall) – Seminar for senior scholars to develop a personal sustainability leadership plan.
- **ENVIRON/RCIDIV 391:** Sustainability & the Campus (4 credits; Offered in Winter) – Hands-on course focused on campus sustainability projects.
- **GRAHAM-SUPPORTED, FIELD-BASED COURSE OR APPROPRIATE ALTERNATIVE:** The Graham Institute will provide up to \$3,000 to cover costs associated with U-M sustainability-focused field courses, which may vary from year to year. Alternatively, Sustainability Scholars may apply for a scholarship (administered as a credit in the student's account) of up to \$3,000 to fulfill this requirement through a non-UM, field-based course or experience or via an appropriate independent study. [Click here for a list of Graham-supported field-based courses currently offered](#), or [here for examples of alternative experiences](#) that Scholars have been a part of to date. (3 credits minimum)
- *Important 2016 Program Note: Academic requirements for the 2016 cohort are subject to change.*
- **UC 327:** Sustainability Interdisciplinary Thinking (1 credit; Offered in Fall) – Seminar for junior scholars on systems thinking and sustainability.

# History

## Global History (Minor)

The Global History minor equips students to think in global dimensions and to approach the past outside the traditional constraints of national and temporal boundaries. Global History is not simply international history and is more than transnational and comparative studies—the fundamental purpose is to approach the past outside the boxes of nations and geographic regions of the world and to emphasize questions of connectivity, mobility, and scale. A global perspective historicizes regions, migrations, capital flows, and also the presentist concept of globalization itself by revealing how people have long imagined the world across traditional boundaries.

Global and world history coursework highlights comparative analysis and connections across time and space at the largest scales. The minor will prepare students for the contemporary challenges of our “globalizing” world while providing them with the knowledge and awareness that the history and processes of globalization go back a very long time.

*Effective Fall 2017*

### Exclusions:

*A minor in Global History is not open to students with a major or any other minor in the Department of History.*

### Advising

Appointments with History advisors are scheduled online from the department's webpage: [/lsa.umich.edu/history/undergraduates/advising.htm](http://lsa.umich.edu/history/undergraduates/advising.htm). Students should see an advisor as soon as they decide on their major or minor.

The History Department offers a three-tiered advising structure.

### Tier 1: Faculty Advisors from the History Department's Undergraduate Committee

- declaring a history major - obtaining general advice about the nature, purpose, and utility of a history degree
- recommending a faculty mentor
- approving study abroad and transfer credit
- declaring an academic minor in History

To make an appointment, go to <http://www.lsa.umich.edu/history/undergraduate/advising>.

### Tier 2: The Assistant Director of Undergraduate Studies

- obtaining general advice about the requirements for the major
- checking progress towards the major or minor
- completing the graduation checklist and release

To make an appointment, go to <http://www.lsa.umich.edu/history/undergraduate/advising>.

### Tier 3: Individual Faculty Mentors

- obtaining approval for a survey sequence and a major theme

- getting advice about course selection
- obtaining advice about career planning

Students generally meet with a Tier 2 advisor for help in selecting a mentor, but all subsequent advising will be done by that individual professor.

Faculty who go on leave will designate a substitute, and inform all their mentees of the temporary change.

Students must arrange appointments directly with their mentors, and are expected to do so at least once a term. It is the student's responsibility to take the initiative in setting up these meetings.

### Prerequisites

None.

### Requirements

#### Minimum Credits: 15

A minimum of 5 courses and 15 credits, distributed as follows

Survey Requirement: Students must take two (but may elect the third under the “Additional Courses” category below):

- HISTORY 238 (Zoom: A History of Everything)
- HISTORY 239 (The World Before 1492)
- HISTORY 240 (The World Since 1492)

Additional Courses: Three additional courses (a minimum of 3 credits each for at least 9 credits). At least two of the three additional courses must be at the 300-level or higher.

All courses must be from the approved list of classes that count for the Global History Minor.

### Approved Courses list

- HISTORY 101 / INTLSTD 205: What Is History?
- HISTORY 102: A History of the Present
- HISTORY 105: Introduction to Religion
- HISTORY 222 / ENVIRON 221. Global Environmental History
- HISTORY 223 / ENVIRON 223 Trashed! A History of Garbage in the Modern World
- HISTORY 224 / PUBPOL 224: Global Nuclear Proliferation
- HISTORY 226 / AMCULT 226 / LATINOAM 226: The Latin Tinge: Latin Music in Social Context in Latin America and the U.S.
- HISTORY 227: The Rise and Fall of the British Empire
- HISTORY 229 / ANTHRCUL 226: Introduction to Historical Anthropology
- HISTORY 230: Humanities Topics in History, sections titled “Tracking Human Rights”; “Global Cold War”; “The Family in the Modern World”; “Religion in the Making of

African America"; "Angels and Demons in Early Christianity"; "Introduction to Islam"

- HISTORY 232: Interdisciplinary Topics in History, section titled "Mental Health in Global History"
- HISTORY 234: History of Medicine in the Western World from the 18th Century to the Present
- HISTORY 241: America and Middle Eastern Wars
- HISTORY 243 / MENAS 243: Islamic World History
- HISTORY 248 / ASIAN 248 / RELIGION 248: Jesus Comes to Asia: Conversion and its Consequences in Asia
- HISTORY 256 / JUDAIC 265: Introduction to Jewish Law: Sources, Legal History and Legal Theory
- HISTORY 257 / JUDAIC 257: Law in the Pre-Modern World
- HISTORY 282: History of the Economy
- HISTORY 285 / RCSSCI 275: Science, Technology, Medicine and Society
- HISTORY 290 / JUDAIC 290 / AAPTIS 287: Jews and Muslims
- HISTORY 303: Topics in History, section titled "Atlantic Slave Trade: Histories and Legacies"
- HISTORY 309: After Alexander: The Hellenistic Age in the Mediterranean and the Near East
- HISTORY 310 / RCSSCI 310: Globalization in History: The Making of the Modern World
- HISTORY 314 / FRENCH 345: Empire, War, and Modernity: France and the World in the 20th Century
- HISTORY 327 / WOMENSTD 327: History of Sexuality
- HISTORY 328: Humanities Topics in History, section titled "The Great War and the Twentieth Century"
- HISTORY 339 / ASIAN 365 / CLCIV 339: Doctors in the Ancient World: China, Greece, and Rome
- HISTORY 350 / HISTART 323 / NEAREAST 383 / JUDAIC 323 / RELIGION 324: History of Jewish Visual Culture: From Ancient Mosaics to Jew-Hop Videos
- HISTORY 363: The U.S. and the World Since 1945: Politics, Culture, and War in the American Century
- HISTORY 375 / WOMENSTD 375: A History of Witchcraft: The 1692 Salem Trials in Historical and Cross-Cultural Perspective
- HISTORY 376: Epidemics: Plagues and Cultures from the Black Death to the Present
- HISTORY 379 / RCSSCI 379 / SI 379: History of Computers and the Internet
- HISTORY 407: Advanced Study in Comparative and International History, section titled "Gender, Sexuality, and International Human Rights"
- HISTORY 421 / AAS 421 / LACS 421 / RELIGION 421: Religions of the African Diaspora

- HISTORY 445: Topics in History, sections titled "Debating Capitalism"; "Why the West Rules(d) the World"; "What is Capitalism?"
- HISTORY 469: Precolonial Southeast Asia
- HISTORY 489: The History of the Roman Catholic Church, 1775-2005
- HISTORY 495: The World the Mongols Made

### Constraints

**AP credit:** AP credits may not be used to satisfy requirements of the minor.

### Residency

Four of the five courses must be taken in-residence at the University of Michigan-Ann Arbor, or must count as in-residence credit (*i.e.*, relevant courses taken through UM-sponsored CGIS programs abroad).

## History (Major)

History is the study of the past and how we remember it. If it happened, historians deal with it—whether it happened yesterday or five thousand years ago. Far too many people imagine that history is merely the dry memorization of names and dates, but a major in history at the University of Michigan will quickly dispel that myth. If you are interested in people and how they interact with the social and natural world, then you should be interested in history. Our courses cover everything: music, politics, family life, technology, war, gender relations, science, medicine, religion, ideologies, sports, and much, much more. Contrary to yet another popular myth, history is one of the most practical, useful majors that one could select. Our students develop skills in critical thinking, writing, and thoughtful reading. Above all, we help students appreciate every aspect of life as part of a much broader and more complicated context, which not only enriches our students' lives but allows them to become sophisticated decision-makers. It is no surprise that employers, law schools, other professional schools, and graduate programs in a wide variety of fields look so favorably upon history graduates.

The history major allows students the flexibility to develop a program that meets their personal interests and needs. Distribution requirements ensure that all students will encounter a wide range of topics, and every student works one-on-one with a faculty mentor to fashion his or her own individualized focus. This combination of breadth, customization, and unparalleled mentoring ensures that the history major can meet the needs of virtually any student.

*Effective Fall 2014*

### Advising

Appointments with History advisors are scheduled online from the department's webpage: [www.lsa.umich.edu/history/undergraduates](http://www.lsa.umich.edu/history/undergraduates). Students should see an advisor as soon as they decide on their major or minor.

The History Department offers a three-tiered advising structure.

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### Tier 2: The Assistant Director of Undergraduate Studies

- obtaining general advice about the requirements for the major
- checking progress towards the major or minor
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### Tier 3: Individual Faculty Mentors

- obtaining approval for a survey sequence and a major theme
- getting advice about course selection
- obtaining advice about career planning

Students generally meet with a Tier 2 advisor for help in selecting a mentor, but all subsequent advising will be done by that individual professor.

Faculty who go on leave will designate a substitute, and inform all their mentees of the temporary change.

Students must arrange appointments directly with their mentors, and are expected to do so at least once a term. It is the student's responsibility to take the initiative in setting up these meetings.

#### Prerequisites

None.

#### Requirements

##### Minimum Credits: 30

A major in History requires a total of ten history courses. Five of these courses must be taken in residence at the University of Michigan-Ann Arbor. At least five of the ten courses must be at the 300-level or above and none can be numbered below 200. Three- and four-credit courses both count as one course. Two mini-courses can be combined in order to equal one course.

1. **Required course.** Every history concentrator must take HISTORY 202: Doing History, during the first semester after they declare. If scheduling problems make it absolutely impossible to take the class immediately, it can be delayed with the approval of a department advisor. This course will introduce students to historical research and writing by engaging directly with a wide range of primary sources and considering the various ways they can be interpreted.
2. **The Survey Sequence.** The foundation of the history major is a two-part survey sequence. The Department offers a range of pre-approved sequences in various geographical, chronological, and thematic areas, but students can also develop their own pairings in consultation with a faculty mentor and with the approval of the Department's Director of Undergraduate Studies. A frequently updated list of

possible pairings will be available on the History Department website. For a sequence to be approved, the two classes must have a clear and well-conceptualized link, and they must fit within a broader theme.

### 3. *Regional Distribution*

- Students have to take at least one course in four of the following areas: North America, Latin America, Europe, the Middle East/Central Asia, Africa, Asia, and Transregional/Global. Courses taken to satisfy the survey sequence requirement **can** be used to satisfy the regional distribution requirement.
- Courses will count in the Transregional/Global category if they cut across significant geographical boundaries (i.e., continents or oceans) as well as major political boundaries. Included are courses dealing with one oceanic basin, but excluded are courses dealing with multiple sites within one continent.

4. **Pre-1800 Distribution.** Students must take at least one course that focuses on a period prior to the year 1800. To meet this requirement, at least 75% of the course material must deal with the pre-modern era. This course can also count as one of the regional courses. Courses taken to satisfy the survey sequence requirement **cannot** be used to satisfy the pre-1800 requirement.

5. **Junior-Senior Colloquium Requirement.** Take either HISTORY 496 or HISTORY 497. Honors students fulfill this requirement by taking HISTORY 499.

A list of pre-approved regional distribution courses and pre-1800 courses will be maintained on the History Department website.

These requirements can overlap. For example, a colloquium about ancient Greece satisfies the pre-1800, European, and colloquium requirements and also counts as one of the upper-level history courses.

For the purposes of history major credit, no more than eight credits may be elected from HISTORY 395 (Independent Study).

Beyond these basic requirements, each student works with an individual faculty mentor to customize his or her program. Prior to declaring a History major, students meet with a general department advisor to discuss the program requirements, but upon declaring, each student selects a faculty mentor who will serve as his or her personal advisor. Department advisors will help students select a mentor based on each individual's interests and needs. The mentor helps the student pick an appropriate survey sequence and select additional courses that will give coherence to the degree program. What form that coherence will take is up to the student (with the mentor's guidance). Some opt for a geographical focus (the United States, Africa, Europe, etc.), while others might prefer a more thematic approach (women's history, international or transnational history, cultural history, etc.). Still others might want to emphasize global or chronological breadth within a more diversified set of classes.

#### Constraints

For the purposes of history major credit, no more than eight credits may be elected from HISTORY 395 (Independent Study).

At least five of the ten courses must be at the 300-level or above and none can be numbered below 200.

## Residency

Five of the ten History courses must be taken in residence at the University of Michigan-Ann Arbor.

## Honors

The Junior-Senior Honors Program in the Department of History is open to juniors majoring in history who have maintained at least a 3.4 grade point average overall and a 3.5 average in history courses. Applications are accepted annually in October. The usual applicant is a first-term junior for this three-term program. Admission decisions will be based on a student's academic performance, background in history, demonstrated ability to write, and recommendations by history faculty. High grade point average alone does not guarantee admission.

Accepted students will be notified in November and will begin their participation in the program the following January in HISTORY 498, the Junior Honors Colloquium.

Members of the Honors Program must fulfill all the usual requirements for majoring in History. The two Honors courses they are required to take, HISTORY 498 (4 credits) and HISTORY 499 (for a total of 6 credits over the two semesters), count toward the fulfillment of these requirements. Completion of HISTORY 499, the Senior Honors Colloquium, also satisfies the "colloquium" requirement for history major, described above. Students who complete HISTORY 498 but not HISTORY 499 must satisfy this requirement by taking either HISTORY 496/497.

## Teaching Certificate

The general requirements for a teaching certificate are described elsewhere in this Bulletin. Students must consult the School of Education Teacher Education office, 1228 School of Education, and check their website ([www.soe.umich.edu](http://www.soe.umich.edu)) for certification program information and general information meeting schedules.

The teaching major and minor for certification differ from the academic history major and minor. History courses required for a teaching certificate with a major in History must include HISTORY 260 and 261, one course in European history, HISTORY 396 or 397, and specific world and non-Western history courses listed on the SOE website. History electives are chosen to reach the minimum 30 credits of History.

Teaching minor requirements are the same as the teaching major with a minimum of 20 credits of History.

## History (Minor)

A minor in history is a great way to explore historical questions and issues while pursuing a major in a different field. The History minor offers a straightforward, coherent, and yet very flexible program that provides a solid introduction to the discipline, and also enhance the interpretive and analytical skills historians depend on and employers value. These skills include learning to become a consciously critical reader, a concise and compelling writer, and a person who not only 'knows stuff' but who can tell others what the 'stuff' means and why it matters.

*Effective Winter 2016*

### Exclusions:

*A minor in History is not open to students with any major or any other minor in the Department of History, nor to those pursuing a minor in Modern European Studies.*

## Advising

Appointments with History advisors are scheduled online from the department's webpage: [www.lsa.umich.edu/history/undergraduates](http://www.lsa.umich.edu/history/undergraduates). Students should see an advisor as soon as they decide on their major or minor.

The History Department offers a three-tiered advising structure.

### Tier 1: Faculty Advisors from the History Department's Undergraduate Committee

- declaring a history major - obtaining general advice about the nature, purpose, and utility of a history degree
- recommending a faculty mentor
- approving study abroad and transfer credit
- declaring an academic minor in History

To make an appointment, go to [/lsa.umich.edu/history/undergraduates/advising.html](http://lsa.umich.edu/history/undergraduates/advising.html).

### Tier 2: The Assistant Director of Undergraduate Studies

- obtaining general advice about the requirements for the major
- checking progress towards the major or minor
- completing the graduation checklist and release

To make an appointment, go to [/lsa.umich.edu/history/undergraduates/advising.html](http://lsa.umich.edu/history/undergraduates/advising.html).

### Tier 3: Individual Faculty Mentors

- obtaining approval for a survey sequence and a major theme
- getting advice about course selection
- obtaining advice about career planning

Students generally meet with a Tier 2 advisor for help in selecting a mentor, but all subsequent advising will be done by that individual professor.

Faculty who go on leave will designate a substitute, and inform all their mentees of the temporary change.

Students must arrange appointments directly with their mentors, and are expected to do so at least once a term. It is the student's responsibility to take the initiative in setting up these meetings.

### Prerequisites

None.

### Requirements

#### Minimum Credits: 15

Five courses (at least 15 credits), to be chosen in consultation with a faculty advisor, covering at least two of the following areas: North America, Latin America, Europe, the Middle East/Central Asia, Africa, Asia, and Transregional/Global. Two mini-courses will equal one regular course.

### Constraints

At least four of the five courses must be at the 200-level or above; at least two courses must be at the 300-level or higher.

*First-Year Seminars do not count toward the minor.*

**AP credit:** AP credits may not be used to satisfy requirements of the minor.

### Residency

Four of the five courses must be taken in-residence at the University of Michigan, Ann Arbor, or must count as in-residence credit (i.e., relevant courses taken through UM-sponsored CGIS programs abroad).

## History of Law and Policy (Minor)

The Minor in History of Law and Policy provides a supplemental program of historically grounded study that will benefit pre-professional students who plan to attend law school or pursue graduate work or immediate careers in policy-related fields. The minor also does not draw any sharp distinction between its law and policy sides but rather emphasizes the dynamic intersections between these categories, and emphasizes the real-world consequences of the law in society and culture and embeds formal constitutional doctrine in historical context. The electives explore the intersections between law and society, the state and citizenship, the relationship between social movements and rights, matters of regulation and governance, and the categories of politics and culture, to name but a few of the recurring themes.

*Effective Fall 2015*

### Exclusions:

*The minor in History of Law and Policy is not open to students electing the minor in Law, Justice, and Social Change; or the minor in Crime and Justice; nor to students electing the major in Public Policy at the Gerald R. Ford School of Public Policy.*

### Advising

Appointments with History advisors are scheduled online from the department's webpage: [www.lsa.umich.edu/history/undergraduate](http://www.lsa.umich.edu/history/undergraduate). Students should see an advisor as soon as they decide on their major or minor.

The History Department offers a three-tiered advising structure.

### Tier 1: Faculty Advisors from the History Department's Undergraduate Committee

- declaring a history major - obtaining general advice about the nature, purpose, and utility of a history degree
- recommending a faculty mentor
- approving study abroad and transfer credit
- declaring an academic minor in History

To make an appointment, go to <http://lsa.umich.edu/history/undergraduates/advising.html>.

### Tier 2: The Assistant Director of Undergraduate Studies

- obtaining general advice about the requirements for the major
- checking progress towards the major or minor
- completing the graduation checklist and release

To make an appointment, go to <http://lsa.umich.edu/history/undergraduates/advising.html>.

### Tier 3: Individual Faculty Mentors

- obtaining approval for a survey sequence and a major theme
- getting advice about course selection
- obtaining advice about career planning

Students generally meet with a Tier 2 advisor for help in selecting a mentor, but all subsequent advising will be done by that individual professor.

Faculty who go on leave will designate a substitute, and inform all their mentees of the temporary change.

Students must arrange appointments directly with their mentors, and are expected to do so at least once a term. It is the student's responsibility to take the initiative in setting up these meetings.

### Prerequisites

None.

### Requirements

#### Minimum Credits: 15

A minimum of five courses and 15 credits is required. At least three of the five courses must be at the 300-level or higher.

### Core Course

Select *at least one* of:

- HISTORY 235: Law and Social Justice  
or
- HISTORY 315: American Constitutional History

### Electives

A minimum of four courses and 12 credits selected in consultation with a history faculty advisor, selected from the list below.

*The Regional Distribution requirement is satisfied by successfully completing courses in at least two world regions. A chronological, geographical, or topical focus is developed in consultation with a faculty advisor.*

### Recommended capstone seminar:

- HISTORY 477: Law, History, and the Dynamics of Social Change (highly recommended but not required)

### Other HISTORY Courses in History of Law and Policy:

- HISTORY 237 / ENVIRON 237: Global Environmental History
- HISTORY 223 / ENVIRON 223: Trashed! A History of Garbage in the Modern World
- HISTORY 224 / ENVIRON 224 / PUBPOL 224: Global Nuclear Proliferation
- HISTORY 230: Humanities Topics in History, *section titled "Tracking Human Rights"*
- HISTORY 232: Interdisciplinary Topics in History, *section titled "History of Human Rights in Latin America"*
- HISTORY 256 / JUDAIC 265: Introduction to Jewish Law. Sources, Legal History and Legal Theory
- HISTORY 257 / JUDAIC 257: Ancient Law

- HISTORY 266: Twentieth-Century American Wars as Social and Personal Experience
- HISTORY 269 / JUDAIC 260 / RELIGION 260: Introduction to the Talmud and the Rabbis
- HISTORY 272 / AAS 262: The Modern Civil Rights Movement
- HISTORY 312 / POLSCI 362: History of European Integration
- HISTORY 322 / GERMAN 322: The Origins of Nazism
- HISTORY 324: Muslims in Contemporary Europe
- HISTORY 329: Social Science Topics in History, *section titled "Crime, Punishment, and the Politics of Prison" or "Crime and Drugs in Modern America"*
- HISTORY 335 / AMCULT 385 / LATINOAM 385: Immigration Law. Critical Approaches to Contemporary Issues
- HISTORY 345 / RCSSCI 357: History and Theory of Punishment
- HISTORY 346 / AMCULT 348: History of American Radicalism
- HISTORY 349 / LACS 349: Revolutionary Movements in Modern Latin America
- HISTORY 356 / AMCULT 331 / WOMENSTD 356: Health in America. Patterns, Experiences, and Inequalities
- HISTORY 360: September 11
- HISTORY 364: History of American Suburbia
- HISTORY 368 / AMCULT 342 / WOMENSTD 360: History of the Family in the U. S.
- HISTORY 374 / AMCULT 374: The Politics and Culture of the "Sixties"
- HISTORY 375 / WOMENSTD 375: History of Witchcraft. The 1692 Salem Trials in Historical and Cross-Cultural Perspective
- HISTORY 376: Epidemics. Plagues and Cultures from the Black Death to the Present
- HISTORY 399: Topics in History, *section titled "The Politics of Civil Liberties and Civil Rights"*
- HISTORY 407: Advanced Study in Comparative and Transnational History, *section titled "Gender, Sexuality, and International Human Rights Law"*
- HISTORY 411 / POLSCI 319: The Politics of Civil Liberties and Civil Rights
- HISTORY 415 / ASIAN 415: Chinese Legal History. Law and Society in Late Imperial and Modern China
- HISTORY 443 / ISLAM 443 / NEAREAST 487: Modern Middle East History
- HISTORY 445: Topics in History, *section titled "What is Capitalism?"*
- HISTORY 466: Building American Empire: War, Politics, and Social Reform in the United States, 1901-1950

- HISTORY 497: History Colloquium, *sections titled "K-12 Education History and Policymaking" or "Crime, Punishment, and the Politics of Prison"*

#### Electives Cross-listed with HISTORY

- AAS 262 / HISTORY 272: The Modern Civil Rights Movement
- AMCULT 331 / HISTORY 356 / WOMENSTD 356: Health in America. Patterns, Experiences, and Inequalities
- AMCULT 342 / HISTORY 368 / WOMENSTD 360: History of the Family in the U. S.
- AMCULT 348 / HISTORY 346: History of American Radicalism
- AMCULT 374 / HISTORY 374: The Politics and Culture of the "Sixties"
- AMCULT 385 / HISTORY 335 / LATINOAM 385: Immigration Law: Critical Approaches to Contemporary Issues
- ASIAN 415 / HISTORY 415: Chinese Legal History. Law and Society in Late Imperial and Modern China
- ENVIRON 221 / HISTORY 222: Global Environmental History
- ENVIRON 223 / HISTORY 223: Trashed! A History of Garbage in the Modern World
- ENVIRON 224 / HISTORY 224 / PUBPOL 224: Global Nuclear Proliferation
- GERMAN 322 / HISTORY 322: The Origins of Nazism
- ISLAM 443 / NEAREAST 487 / HISTORY 443: Modern Middle East History
- JUDAIC 257 / HISTORY 257: Ancient Law
- JUDAIC 260 / HISTORY 269 / RELIGION 260: Introduction to the Talmud and the Rabbis
- JUDAIC 265 / HISTORY 256: Introduction to Jewish Law. Sources, Legal History and Legal Theory
- LACS 349 / HISTORY 349: Revolutionary Movements in Modern Latin America
- LATINOAM 385 / HISTORY 335 / AMCULT 385: Immigration Law. Critical Approaches to Contemporary Issues
- NEAREAST 487 / ISLAM 443 / HISTORY 443: Modern Middle East History
- POLSCI 319 / HISTORY 411: The Politics of Civil Liberties and Civil Rights
- POLSCI 362 / HISTORY 312: History of European Integration
- PUBPOL 224 / ENVIRON 224 / HISTORY 224: Global Nuclear Proliferation
- RCSSCI 357 / HISTORY 345: History and Theory of Punishment
- RELIGION 260 / HISTORY 269 / JUDAIC 260: Introduction to the Talmud and the Rabbis
- WOMENSTD 356 / HISTORY 356 / AMCULT 331: Health in America. Patterns, Experiences, and Inequalities

- WOMENSTD 360 / HISTORY 368 / AMCULT 342: History of the Family in the U. S.
- WOMENSTD 375 / HISTORY 375: History of Witchcraft. The 1692 Salem Trials in Historical and Cross-Cultural Perspective

#### Other Electives:

- INTLSTD 401: International Studies Advanced Seminar, *section titled "Gender, Sexuality, and International Human Rights Law"*

#### 100-level Electives

A maximum of one 100-level course may be applied toward the requirements for the minor.

- HISTORY 102: A History of the Present
- HISTORY 103: Introduction to History in the Humanities (*appropriate sections*)
- HISTORY 104: Introduction to History in the Social Sciences (*appropriate sections*)

#### Constraints

**AP credit:** AP credits may not be used to satisfy requirements of the minor.

*At least three of the five courses must be at the 300-level or higher.*

#### Residency

Four of the five courses must be taken in-residence at the University of Michigan-Ann Arbor, or must count as in-residence credit (i.e., relevant courses taken through UM-sponsored CGIS programs abroad).

## History of Medicine and Health (Minor)

Why does the History Department offer a minor in the History of Medicine and Health? Because more than a recitation of names and dates, history provides insights into the issues of contemporary importance, be they the global response to Ebola or the politics of health care. Taught by the department's internationally renowned faculty in the history of medicine and health, courses in the History of Medicine and Health minor will be of interest to a wide range of students.

For students planning to attend medical school, graduate school in public health, or to pursue a broad range of related career paths in fields such as global health, nursing, medical anthropology, pharmacy, psychology, social work, and neuroscience, the minor will provide a valuable supplemental program of study. Courses will help students develop the empathy to envision past perspectives and experiences, and the ability to understand that current medical facts have changed and will continue to change.

*Effective Winter 2016*

#### Exclusions:

*A minor in History of Medicine and Health is not open to students with a major or any other minor in the Department of History, or students taking a Minor in [Science, Technology, and Society](#).*

#### Advising

Appointments with History advisors are scheduled online from the department's webpage: <http://lsa.umich.edu/history/undergraduates/advising.html>. Students should see an advisor as soon as they decide on their major or minor.

The History Department offers a three-tiered advising structure.

#### Tier 1: Faculty Advisors from the History Department's Undergraduate Committee

- declaring a history major - obtaining general advice about the nature, purpose, and utility of a history degree
- recommending a faculty mentor
- approving study abroad and transfer credit
- declaring an academic minor in History

To make an appointment, go to <http://lsa.umich.edu/history/undergraduates/advising.html>.

#### Tier 2: The Assistant Director of Undergraduate Studies

- obtaining general advice about the requirements for the major
- checking progress towards the major or minor
- completing the graduation checklist and release

To make an appointment, go to <http://lsa.umich.edu/history/undergraduates/advising.html>.

#### Tier 3: Individual Faculty Mentors

- obtaining approval for a survey sequence and a major theme
- getting advice about course selection
- obtaining advice about career planning

Students generally meet with a Tier 2 advisor for help in selecting a mentor, but all subsequent advising will be done by that individual professor.

Faculty who go on leave will designate a substitute, and inform all their mentees of the temporary change.

Students must arrange appointments directly with their mentors, and are expected to do so at least once a term. It is the student's responsibility to take the initiative in setting up these meetings.

#### Prerequisites

None.

#### Requirements

##### Minimum Credits: 15

A minimum of 5 courses and 15 credits, distributed as follows

1. Take one of two 4-credit survey courses:
  - HISTORY 234: History of Medicine in the Western World from the 18th Century to the Present  
or
  - HISTORY 284: Sickness and Health in Society: 1492 to the Present



Students may take both of these courses for minor credit but only one is required.

2. **Additional Courses.** Four additional courses (at least 12 credits), to be chosen in consultation with a faculty advisor. At least two of the four additional courses must be at the 300-level or higher.
  - Three of these courses must be from the approved list of courses that count for the Medicine and Health minor.
  - One of these courses must be a History distribution course that is not on the approved list.

#### Approved Course List:

- HISTORY 230: Humanities Topics in History, *section titled "History of Psychology"*
- HISTORY 231: Social Science Topics in History, *section titled "Histories of Human Experimentation"*
- HISTORY 232: Interdisciplinary Topics in History, *section titled "Mental Health in Global History"*
- HISTORY 242: Madness, Medicine, and Magic in the Middle East
- HISTORY 285 / RCSSCI 275: Science, Technology, Medicine, and Society
- HISTORY 292: Ancient Medicine in Greece and Rome.
- HISTORY 329: Social Science Topics in History, *section titled "Pollution and Disease in Early Modern Europe"*
- HISTORY 339 / ASIAN 365 / CLCIV 339: Doctors in the Ancient World
- HISTORY 233 (or 342 prior to Winter 2016): Sexually Transmitted Diseases from Syphilis to AIDS
- HISTORY 355 / AAS 355 / ANTHRCUL 355: Health and Illness in African Worlds
- HISTORY 356/AMCULT 331: Health in America: Patterns, Experiences, and Inequalities
- HISTORY 376: Epidemics: Plagues and Cultures from the Black Death to the Present
- HISTORY 391: Topics in European History, *section titled "Medieval Catastrophes"*
- HISTORY 496: History Colloquium, *section titled "Medicine and Health in U.S. Culture since 1875"*
- HISTORY 497: History Colloquium, *section titled "Medicine and Health in U.S. Culture since 1875"*
- AAS 355 / HISTORY 355 / ANTHRCUL 355: Health and Illness in African Worlds
- ANTHRCUL 355 / HISTORY 355 / AAS 355: Health and Illness in African Worlds
- ASIAN 365 / HISTORY 339 / CLCIV 339: Doctors in the Ancient World

- CLCIV 339 / HISTORY 339 / ASIAN 365: Doctors in the Ancient World
- HONORS 230: Honors Core in Social Science, *section titled "Histories of Human Experimentation"*
- RCSSCI 275 / HISTORY 285: Science, Technology, Medicine, and Society

#### Constraints

**AP credit:** AP credits may not be used to satisfy requirements of the minor.

*At least two of the four additional courses must be at the 300-level or higher.*

#### Residency

Four of the five courses must be taken in-residence at the University of Michigan-Ann Arbor, or must count as in-residence credit (i.e., relevant courses taken through UM-sponsored CGIS programs abroad).

## Medieval and Early Modern Studies (Minor)

The minor in MEMS is designed to provide a basic, interdisciplinary familiarity with the pre-modern world. The minor fosters geographic and cross-cultural breadth, but also allows students to integrate their interdisciplinary studies with a defined historical, geographical, or topical focus planned with the department advisor. Possibilities include pre-modern cultural areas (Africa, the Americas, Asia, Europe, the Middle East) or focused thematic subjects (e.g., material culture; women and gender; science, technology, and medicine; Jewish studies; religion and philosophy; music, theatre and performance; colonialism).

*Effective Fall 2011*

#### Advising

Students wishing to pursue a minor in Medieval and Early Modern Studies must develop a specific plan for its completion in consultation with the Program's [designated advisor](#). Appointments are scheduled at the Program Office.

#### Prerequisites

None.

#### Requirements

##### Minimum Credits: 15

15 credit hours (and five courses), including at least two upper-division courses, in the medieval and early modern periods, chosen in consultation with the MEMS department advisor. These courses must include

1. **Geographic area courses.** Select one course from two of these five areas:
  1. African cultures
  2. American cultures
  3. Asian cultures
  4. European cultures
  5. Middle Eastern cultures

2. **Disciplinary courses.** Select one course from three of these four disciplines:
  1. historical studies
  2. art historical or archaeological studies
  3. language or literary studies
  4. musicological studies

A single course may count toward both geographic and disciplinary distribution requirements. With the approval of the department advisor, students whose major includes a medieval and early modern studies course in one of these disciplinary categories may substitute one course from a discipline different from that of the major.

## Religion (Minor)

*The Religion minor is an interdisciplinary minor housed in the History department, but is not a History minor.*

We live in a world in which religion matters. Religious issues and conflicts dominate the headlines, from extraordinary acts of renewal to horrifying acts of destruction. Even in defining what religion is, and is not, proves a high-stakes challenge for institutions from the U.S. Supreme Court to the UN to local police or business owners.

The minor in Religion offers LSA students a rich and varied curriculum that provides the opportunity to explore the world's religions from antiquity to the present. Though the minor is housed in the History Department, it is designed to be a broad introduction to religion from many disciplinary angles and viewpoints.

We imagine the audience for our minor to be any LSA students interested in the phenomenon and the study of religion, whether it be from their own faith tradition, some other tradition, or the more general phenomenon of religion itself. Students interested in the humanities and social sciences, but also students of law, medicine, or business would benefit from this minor.

*Effective Winter 2016*

### Advising

Appointments with History advisors are scheduled online from the department's webpage: [www.lsa.umich.edu/history/undergraduate](http://www.lsa.umich.edu/history/undergraduate). Students should see an advisor as soon as they decide on their major or minor.

The History Department offers a three-tiered advising structure.

#### Tier 1: Faculty Advisors from the History Department's Undergraduate Committee

- declaring a history major - obtaining general advice about the nature, purpose, and utility of a history degree
- recommending a faculty mentor
- approving study abroad and transfer credit
- declaring an academic minor in History

To make an appointment, go to <http://www.lsa.umich.edu/history/undergraduate/advising>.

#### Tier 2: The Assistant Director of Undergraduate Studies

- obtaining general advice about the requirements for the major

- checking progress towards the major or minor
- completing the graduation checklist and release

To make an appointment, go to <http://www.lsa.umich.edu/history/undergraduate/advising>.

#### Tier 3: Individual Faculty Mentors

- obtaining approval for a survey sequence and a major theme
- getting advice about course selection
- obtaining advice about career planning

Students generally meet with a Tier 2 advisor for help in selecting a mentor, but all subsequent advising will be done by that individual professor.

Faculty who go on leave will designate a substitute, and inform all their mentees of the temporary change.

Students must arrange appointments directly with their mentors, and are expected to do so at least once a term. It is the student's responsibility to take the initiative in setting up these meetings.

#### Prerequisites

None.

#### Requirements

##### Minimum Credits: 15

A minimum of 5 courses and 15 credits, distributed as follows

1. **Core Course.** HISTORY 105: Introduction to Religion.
2. **Additional Courses.** Four additional courses (at least 12 credits), to be chosen in consultation with a faculty advisor.
  - At least two of these four courses must be at the 300-level or higher.
  - The four courses must cover at least two of the following religious traditions or philosophical traditions – Buddhism [BUD]; Christianity [CHR]; Comparative [COMP]; Hinduism [HIN]; Islam [ISLM]; Judaism [JUD] – or another religious tradition approved by a faculty advisor.
  - All four courses must be from the approved list of courses that count for the Religion minor.

#### Courses Approved for Religion Minor

##### History

HISTORY 210 / MEMS 210: Early Medieval Europe [CHR]  
 HISTORY 213/ MEMS 213: The Reformation [CHR]  
 HISTORY 230: Humanities Topics in History, *sections titled "Angels and Demons in Early Christianity" or "The Bible in History"* [COMP]  
 HISTORY 243 / MENAS 243: The Dawn of Islamic History [ISLM]  
 HISTORY 244 / NEAREAST 284 / JUDAIC 244 / MENAS 244. The History of the Arab-Israeli Conflict [COMP]  
 HISTORY 245 / AAS 245: Islam in Africa [ISLM]  
 HISTORY 248 / ASIAN 248 / RELIGION 248: Jesus Comes to Asia [CHR]  
 HISTORY 256 / JUDAIC 265: Intro to Jewish Law [JUD]  
 HISTORY 259 / NEAREAST 339 / RELIGION 358: Israel Before the Exile: Its History & Religion [JUD]  
 HISTORY 269 / JUDAIC 260 / RELIGION 260: Introduction to the Talmud and the Rabbis [JUD]

HISTORY 270 / AMCULT 270: Religion in America [COMP]  
 HISTORY 271 / RELIGION 271 / ANTHRCUL 221: Religions of Latin America [COMP]  
 HISTORY 286 / RELIGION 286: A History of Eastern Christianity from the 4th to the 18th Century [CHR]  
 HISTORY 290 / JUDAIC 290 / NEAREAST 287: Jews and Muslims [COMP]  
 HISTORY 303 / CLCIV 303 / WOMENSTD 303: Roman Women [COMP]  
 HISTORY 308 / ASIAN 307 / RELIGION 307: Eat, Pray, Love: Devotional Traditions in South Asia [COMP]  
 HISTORY / MEMS / WOMENSTD 316: Medieval Women [CHR]  
 HISTORY 324: Muslims in Contemporary Europe [ISLM]  
 HISTORY 325 / RELIGION 325 / NEAREAST 375 / MEMS 325 / ASIAN 324: The History of Islam in South Asia [ISLM]  
 HISTORY 328: Humanities Topics in History, *sections titled "The Bible in the 19th Century" or "Ancient Judaism: Law, Religion, History"* [JUD]  
 HISTORY 350 / JUDAIC 323 / HISTART 323 / NEAREAST 383 / RELIGION 324: History of Jewish Visual Culture: From Ancient Mosaics to Jew-Hop Videos [JUD]  
 HISTORY 357: Topics in African History, *section titled "Islam in Africa"* [ISLM]  
 HISTORY 381 / CLCIV 380 / JUDAIC 380 / RELIGION 382: Ancient Jewish History to 638 CE: From Israelite Origins to Islamic Conquest [JUD]  
 HISTORY 387 / JUDAIC 387 / AMCULT 387: History of American Jews [JUD]  
 HISTORY 390: Topics in History, *section titled "Islam and the West"* [ISLM]  
 HISTORY 421 / AAS 421 / LACS 421 / RELIGION 421: Religions of the African Diaspora [COMP]  
 HISTORY 428 / NEAREAST 413: The Rise of Islam [ISLM]  
 HISTORY 442 / NEAREAST 417: The First Millennium of the Islamic Near East [ISLM]  
 HISTORY 445: Topics in History, *section titled "American Jews & Social Justice in the U.S."* [JUD]  
 HISTORY 470 / ASIAN 464 / RELIGION 464: From Mystic Saints to Holy Warriors: Islam in Southeast Asia [ISLM]  
 HISTORY 481: Topics in European History, *section titled "Spirituality & Madness: Religious Women"* [CHR]  
 HISTORY 487: Conversations and Christianities in the Early Modern World and Beyond [CHR]  
 HISTORY 489: Roman Catholicism and the Modern World [CHR]  
 HISTORY 497: History Colloquium, *section titled "Crusade and Jihad"* [COMP]

#### **African and African American Studies**

AAS 206: Issues in African Studies: African Christianities [CHR]  
 AAS 245 / HISTORY 245: Islam in Africa [ISLM]  
 AAS 267 / HISTORY 267 / AMCULT 267: Religion in the Making of African America [COMP]  
 AAS 358: Topics in Black World Studies, *section titled "Urban Religion in the African Diaspora"* [COMP]  
 AAS 421 / HISTORY 421 / LACS 421 / RELIGION 421: Religions of the African Diaspora [COMP]

#### **American Culture**

AMCULT 267 / HISTORY 267 / AAS 267: Religion in the Making of African America [COMP]  
 AMCULT 270 / HISTORY 270: Religion in America [COMP]  
 AMCULT: Topics in American Culture, *section titled "Islam in America"* [ISLM] (F17)  
 AMCULT 387 / HISTORY 387 / JUDAIC 387: History of American Jews [COMP]

ARABAM 301: Topics in Arab American Studies, *section titled "Islam in/and America"* [ISLM] (F17)

#### **Anthropology**

ANTHRCUL 221 / HISTORY 271 / RELIGION 271: Religions of Latin America [COMP]  
 ANTHRCUL 246 / RELIGION 246: Anthropology of Religion [COMP]

#### **Asian Languages and Cultures**

ASIAN 220 / RELIGION 202: Introduction to the Study of Asian Religions [COMP]  
 ASIAN 223 / RELIGION 223: Krishna Speaks: Bhagavad-Gita [HIN]  
 ASIAN 225 / RELIGION 225: Introduction to Hinduism [HIN]  
 ASIAN 230 / PHIL 230 / RELIGION 230: Introduction to Buddhism [BUD]  
 ASIAN 231 / RELIGION 231: Introduction to Tibetan Buddhism [BUD]  
 ASIAN 234 / RELIGION 234: Buddhism and Death [BUD]  
 ASIAN 248 / HISTORY 248 / RELIGION 248: Jesus Comes to Asia [CHR]  
 ASIAN 272 / RELIGION 272: Introduction to the Study of Korean Religions [COMP]  
 ASIAN 303 / RELIGION 303: Religious Military Orders of the World [COMP]  
 ASIAN 304 / HISTART 304: The Art of Yoga [BUD]  
 ASIAN 305 / RELIGION 305: Religion and Violence in the Secular World [COMP]  
 ASIAN 306 / RELIGION 306: What is Religion? [COMP]  
 ASIAN 307 / HISTORY 308: Eat, Pray, Love: Devotional Traditions in South Asia [COMP]  
 ASIAN 324 / HISTORY 325 / NEAREAST 375 / MEMS 325 / RELIGION 325 /: The History of Islam in South Asia [ISLM]  
 ASIAN 325 / RELIGION 323: Zen: History, Culture, and Critique [BUD]  
 ASIAN 326: Introduction to Japanese Buddhism [BUD]  
 ASIAN 329: Violence and Nonviolence in the Buddhist Traditions of Asia [BUD]  
 ASIAN 331 / PHIL 331 / RELIGION 331: Introduction to Indian Philosophy [COMP]  
 ASIAN 333: Sacred Collectives: Nation and Religion in South Asia [COMP]  
 ASIAN 335 / HISTART 305: Himalayas: An Aesthetic Experience [COMP]  
 ASIAN 350 / RELIGION 351: Gods, Ghosts, and Gangsters: Popular Religion [COMP]  
 ASIAN 430: Philosophy of the Sikh Gurus [COMP]  
 ASIAN 464 / RELIGION 464 / HISTORY 470: From Mystic Saints to Holy Warriors: Islam in Southeast Asia [ISLM]

#### **Classical Studies**

CLCIV 303 / HISTORY 303 / WOMENSTD 303: Roman Women [COMP]  
 CLCIV 347 / RELIGION 347: Roman Religion from the Archaic Period to Late Antiquity [COMP]  
 CLCIV 380 / HISTORY 381 / JUDAIC 380 / RELIGION 382: Ancient Jewish History to 638 CE: From Israelite Origins to Islamic Conquest [JUD]  
 CLCIV 446: Greek Religion [COMP]  
 GREEK 307 / ACABS 307: The Synoptic Gospels: Matthew, Mark and Luke (requires two terms of Greek) [CHR]

#### **English**

\*ENGLISH 258 / RELIGION 258: The Bible as Literature [COMP]  
 ENGLISH 398: Junior Seminar in English Studies, *section titled "New English Literature in the Age of Chaucer"* [CHR]  
 ENGLISH 415 / WOMENSTD 414: Studies in Women and Literature: Early Women Writers [CHR]  
 ENGLISH 469: Milton [CHR]

#### **Germanic Languages and Literatures**

GERMAN 460: Europe's Islam: From Dante to Rushdie [ISLM]

### Greek

GREEK 307 / NESLANG 307: The Synoptic Gospels: Matthew, Mark and Luke (requires two terms of Greek) [CHR]

### History of Art

HISTART 285 / NEAREAST 285: Visual Culture Islam [ISLM]

HISTART 304 / ASIAN 304: The Art of Yoga [BUD]

HISTART 305 / ASIAN 335: Himalayas: An Aesthetic Experience [COMP]

HISTART 323 / HISTORY 350 / JUDAIC 323 / NEAREAST 383 / RELIGION 324: History of Jewish Visual Culture: From Ancient Mosaics to Jew-Hop Videos [JUD]

HISTART 351: The Art and Poetry of Michelangelo [CHR]

HISTART 355 / MEMS 355: The Miraculous and the Diabolical in Late Medieval and Early Modern European Visual Culture [CHR]

### Judaic Studies

JUDAIC 205 / NEAREAST 276: What is Judaism? [JUD]

JUDAIC 244 / HISTORY 244 / NEAREAST 284 / MENAS 244: The History of the Arab-Israeli Conflict [JUD]

JUDAIC 260 / HISTORY 269 / RELIGION 260: Introduction to the Talmud and the Rabbis [JUD]

JUDAIC 265 / HISTORY 256: Intro to Jewish Law [JUD]

JUDAIC 290 / HISTORY 290: Jews and Muslims [JUD]

JUDAIC 318. Humanities Topics in Judaism, *section titled "History and Religion of Ancient Judaism"* [JUD]

JUDAIC 323 / HISTORY 350 / HISTART 323 / NEAREAST 383 / RELIGION 324: History of Jewish Visual Culture: From Ancient Mosaics to Jew-Hop Videos [JUD]

JUDAIC 360: A Global History of the Jews of Spain [JUD]

JUDAIC 376 / WOMENSTD 376: Women and the Bible [JUD]

JUDAIC 380 / HISTORY 381 / CLCIV 380 / RELIGION 382: Ancient Jewish History to 638 CE: From Israelite Origins to Islamic Conquest [JUD]

JUDAIC 387 / HISTORY 387 / AMCULT 387: History of American Jews [JUD]

JUDAIC 410 / SOC 410: Sociology of the American Jewish Community [JUD]

JUDAIC 451 / POLSCI 350: The Politics and Culture of Modern East European Jewry [JUD]

JUDAIC 468 / NEAREAST 456 / RELIGION 469: Jewish Mysticism [JUD]

### Latin American and Caribbean Studies

LACS 421 / HISTORY 421 / AAS 421 / RELIGION 421: Religions of the African Diaspora [COMP]

### Medieval and Early Modern Studies

MEMS 213 / HISTORY 213: The Reformation [CHR]

MEMS 325 / ASIAN 324 / HISTORY 325 / NEAREAST 375 / RELIGION 325: The History of Islam in South Asia [ISLM]

MEMS 355 / HISTART 355: The Miraculous and the Diabolical in Late Medieval and Early Modern European Visual Culture [CHR]

### Middle Eastern and North African Studies

MENAS 243 / HISTORY 243: The Dawn of Islamic History [ISLM]

MENAS 244 / HISTORY 244 / NEAREAST 284 / JUDAIC 244: The History of the Arab-Israeli Conflict [COMP]

### Near Eastern Studies

NEAREAST 202 / RELIGION 201: Introduction to World Religions: Near Eastern [COMP]

NEAREAST 216 / RELIGION 204: Introduction to Islam [ISLM]

NEAREAST 235 / RELIGION 121: Introduction to the Tanakh/Old Testament [JUD]

NEAREAST 236 / RELIGION 122: Introduction to the New Testament [CHR]

\*NEAREAST 238 / RELIGION 280: The Historical Jesus in Christianity, Judaism, and Islam [COMP]

NEAREAST 240: Ancient Egypt: Religion and Culture [COMP]

NEAREAST 242 / RELIGION 270: Introduction to Rabbinic Literature [JUD]

NEAREAST 276 / JUDAIC 205: What is Judaism? [JUD]

NEAREAST 284 / HISTORY 244 / JUDAIC 244 / MENAS 244: The History of the Arab-Israeli Conflict [COMP]

NEAREAST 285 / HISTART 285: Visual Culture Islam [ISLM]

NEAREAST 295. First Year Seminar in Near Eastern Studies, *section titled "The Dead Sea Scrolls for the 21st Century"* [JUD]

NEAREAST / ISLAM / MEMS / REEES / RELIGION 318: The Church of Armenia: Profile of a National Institution [CHR]

NEAREAST 321: Jihad in History [ISLM]

NEAREAST 322 / RELIGION 363: The Qur'an and its Interpretations [ISLM]

NEAREAST 323: The Prophet Muhammad in Islam [ISLM]

NEAREAST 335 / RELIGION 359. History and Religion of Ancient Judaism [JUD]

NEAREAST 336 / RELIGION 350: Early Christianity, 50-650 CE [CHR]

NEAREAST 339 / RELIGION 358: Israel Before the Exile (587 BCE): Its History & Religion [JUD]

NEAREAST 375 / MEMS 325 / HISTORY 325 / RELIGION 325 / ASIAN 324: The History of Islam in South Asia [ISLM]

NEAREAST 383 / HISTORY 350 / HISTART 323 / JUDAIC 323 / RELIGION 324: History of Jewish Visual Culture: From Ancient Mosaics to Jew-Hop Videos [JUD]

NEAREAST 413 / HISTORY 428. The Rise of Islam [ISLM]

NEAREAST 417 / HISTORY 442: The First Millennium of the Islamic Near East [ISLM]

NEAREAST 421 / RELIGION 465: Islamic Mysticism [ISLM]

NEAREAST 456 / JUDAIC 468 / RELIGION 469: Jewish Mysticism [JUD]

NEAREAST 520: Readings in Classical Islamic Texts (*requires 6th-term proficiency in Arabic*) [ISLM]

NESLANG 307 / GREEK 307: The Synoptic Gospels: Matthew, Mark and Luke (requires two terms of Greek) [CHR]

### Philosophy

PHIL 230 / ASIAN 230 / RELIGION 230: Introduction to Buddhism [BUD]

PHIL 262 / RELIGION 262: Intro to the Philosophy of Religion [COMP]

PHIL 331 / ASIAN 331 / RELIGION 331: Introduction to Indian Philosophy [COMP]

PHIL 480: Philosophy of Religion [COMP]

### Political Science

POLSCI 350 / JUDAIC 451: The Politics and Culture of Modern East European Jewry [JUD]

### Religion

RELIGION 201 / NEAREAST 202: Introduction to World Religions: Near Eastern [COMP]

RELIGION 202 / ASIAN 220: Introduction to the Study of Asian Religions [COMP]

RELIGION 204 / NEAREAST 216: Introduction to Islam [ISLM]

RELIGION 223 / ASIAN 223: Krishna Speaks: Bhagavad-Gita [HIN]

RELIGION 225 / ASIAN 225: Introduction to Hinduism [HIN]

RELIGION 230 / PHIL 230 / ASIAN 230: Introduction to Buddhism [BUD]

RELIGION 231 / ASIAN 231: Introduction to Tibetan Buddhism [BUD]

RELIGION 234 / ASIAN 234: Buddhism and Death [BUD]  
 RELIGION 235 / NEAREAST 235: Introduction to the Tanakh/Old Testament [JUD]  
 RELIGION 236 / NEAREAST 236: Introduction to the New Testament [CHR]  
 RELIGION 246 / ANTHRCUL 246: Anthropology of Religion [COMP]  
 RELIGION 248 / HISTORY 248 / ASIAN 248: Jesus Comes to Asia [CHR]  
 \*RELIGION 258 / ENGLISH 258 / JUDAIC 258: The Bible as Literature [COMP]  
 RELIGION 260 / JUDAIC 260 / HISTORY 269: Introduction to the Talmud and the Rabbis [JUD]  
 RELIGION 262 / PHIL 262: Intro to the Philosophy of Religion [COMP]  
 RELIGION 270 / NEAREAST 242: Introduction to Rabbinic Literature [JUD]  
 RELIGION 271 / HISTORY 271/ ANTHRCUL 221: Religions of Latin America [COMP]  
 RELIGION 272 / ASIAN 272: Introduction to the Study of Korean Religions [COMP]  
 \*RELIGION 280 / NEAREAST 238: The Historical Jesus in Christianity, Judaism and Islam [COMP]  
 RELIGION 286 / HISTORY 286: A History of Eastern Christianity from the 4th to the 18th Century [CHR]  
 RELIGION 303 / ASIAN 303: Religious Military Orders of the World [COMP]  
 RELIGION 305 / ASIAN 305: Religion and Violence in the Secular World [COMP]  
 RELIGION 306 / ASIAN 306: What is Religion? [COMP]  
 RELIGION 307 / ASIAN 307 / HISTORY 308: Eat, Pray, Love: Devotional Traditions in South Asia [COMP]  
 RELIGION 323 / ASIAN 325: Zen: History, Culture, and Critique [BUD]  
 RELIGION 324/ HISTORY 350 / HISTART 323 / JUDAIC 323 / NEAREAST 383: History of Jewish Visual Culture: From Ancient Mosaics to Jew-Hop Videos [JUD]  
 RELIGION 325 / HISTORY 325 / NEAREAST 375 / MEMS 325 / ASIAN 324: The History of Islam in South Asia [ISLM]  
 RELIGION 331 / ASIAN 331 / PHIL 331: Introduction to Indian Philosophy [COMP]  
 RELIGION 347 / CLCIV 347: Roman Religion from the Archaic Period to Late Antiquity [COMP]  
 RELIGION 350 / NEAREAST 336: Early Christianity, 50-650 CE [CHR]  
 RELIGION 351 / ASIAN 350. Gods, Ghosts, and Gangsters: Popular Religion in China [COMP]  
 RELIGION 358 / NEAREAST 339. Israel Before the Exile: Its History & Religion [JUD]  
 RELIGION 359 / NEAREAST 335 / JUDAIC 318: History and Religion of Ancient Judaism [JUD]  
 RELIGION 360 / RCHUMS 365: Experiences of Atheism: A History of Skepticism [COMP]  
 RELIGION 363 / NEAREAST 322: The Qur'an and its Interpretations [ISLM]  
 RELIGION 382 / HISTORY 381 / CLCIV 380 / JUDAIC 380: Ancient Jewish History to 638 CE: From Israelite Origins to Islamic Conquest [JUD]  
 RELIGION 421/ HISTORY 421 / AAS 421 / LACS 421: Religions of the African Diaspora [COMP]  
 RELIGION 455 / SOC 455: Religion and Society [COMP]  
 RELIGION 464 / ASIAN 464 / HISTORY 470: From Mystic Saints to Holy Warriors: Islam in Southeast Asia [ISLM]  
 RELIGION 465 / NEAREAST 421: Islamic Mysticism [ISLM]  
 RELIGION 368 / CLCIV 466: Greek Religion [COMP]  
 RELIGION 469 / NEAREAST 456 / JUDAIC 468: Jewish Mysticism [JUD]

### Residential College

RCHUMS 365 / RELIGION 360: Experiences of Atheism: A History of Skepticism [COMP]

### Russian, Eastern European, and Eurasian Studies

REEES 490 / SOC 490 / WOMENSTD 492: Women and Islam: A Sociological Perspective [ISLM]

### Sociology

SOC 410 / JUDAIC 410: Sociology of the American Jewish Community [JUD]

SOC 455 / RELIGION 455: Religion and Society [COMP]

SOC 490 / REEES 490 / WOMENSTD 492: Women and Islam: A Sociological Perspective [ISLM]

### Women's Studies

WOMENSTD 303 / HISTORY 303 / CLCIV 303: Roman Women [COMP]

WOMENSTD 376 / JUDAIC 376: Women and the Bible [JUD]

WOMENSTD 414 / ENGLISH 415: Studies in Women and Literature: Early Women Writers [CHR]

WOMENSTD 492 / SOC 490 / REEES 490: Women and Islam: A Sociological Perspective [ISLM]

*\*change in tradition*

### Constraints

**AP credit:** AP credits may not be used to satisfy requirements of the minor.

### Residency

Four of the five courses must be taken in-residence at the University of Michigan—Ann Arbor, or must count as in-residence credit (i.e., relevant courses taken through UM-sponsored CGIS programs abroad).

# History of Art

History of Art examines the wide range of things that humanity has made and looked at and endowed with meaning - from the imposing facade of an imperial palace, to the colorful glory of stained glass or oil painting, to an artist's intimate sketches. The discipline encompasses the study of painting, sculpture, the graphic media, and architecture, as well as an extensive variety of visual forms produced for purposes that run far afield of the traditional territory of "art" itself (advertising, say, or ritual and ceremony, or popular entertainment).

Students become conversant with the world's cultures and develop skills in visual analysis in order to understand how images, objects and built environments communicate. They also learn to employ a broad selection of interpretive methodologies. Through careful work with original sources and a wide-ranging study of comparative cultures, our students learn to consider how art objects were understood in their own time and place, and how they continue to function in the contemporary world. In doing so, history of art students become acute observers and interpreters of the visual environment.

## History of Art (Major)

A major in History of Art provides an excellent general foundation for work in a range of careers which rely on visual literacy as well as training in the humanities. Graduates of our program have pursued careers not only in university teaching and research, museums, galleries, auction houses, but also in arts administration, art therapy, design, advertising, criticism, journalism, publishing, libraries, computer and digital technology, and historical preservation.

The History of Art Student Services Office, located in 50 Tappan Hall, maintains files of information on career options, internships, study abroad programs, graduate schools, Museum Studies programs, and fellowships.

*Effective Winter 2018*

### Advising

A major or minor in the History of Art is developed in consultation with a History of Art advisor. Appointments are scheduled through the departmental website: <http://lsa.umich.edu/histart/undergraduates/advising-appointments.html>.

Majors and minors must consult with an advisor at least once a year.

**The History of Art Website.** For further information about the curriculum, student resources, faculty and staff, departmental events, and Helicon (the undergraduate art history association), please consult the History of Art website: [www.lsa.umich.edu/histart/](http://www.lsa.umich.edu/histart/)

### Prerequisites

None.

### Requirements

**Minimum Credits:** 30

At least 24 credits in History of Art and 6 cognate credits.

The 24 History of Art credits must include:

- 6 credits at the 200 level.

- 12 credits at the 300 level or higher, including a 3-credit seminar
- 6 additional credits at the 200 level or higher.
- completion of the History of Art **Distribution Requirements** for Majors.

**Distribution Requirements.** There are two kinds of distribution requirements, one focusing on historical time periods and the other on different regions of the globe. The former familiarizes students with cultural practices associated with different historical moments, and the latter with a wide range of national and regional traditions. Majors are required to select 200-level or higher courses that correspond to at least **three of the four time periods** and **three of the five regions** listed below. Since each course counts towards one time period and one region, the distribution requirements can be satisfied with as few as three courses.

### Time Periods

1. Ancient
2. Medieval
3. Early Modern
4. Modern and Contemporary

### Regions

1. The Middle East (includes Western and Central Asia and North Africa)
2. Sub-Saharan Africa
3. Asia (includes China, Japan, India, South and Southeast Asia, and the Pacific)
4. Europe and the U. S.
5. Latin America and the Caribbean

**Cognate Requirements.** The 6 cognate credits (two courses) must include:

- One studio course (minimum 3 credits) at the 100 level or higher. This course may be taken at the School of Art & Design, the Residential College, or the Taubman College of Architecture and Urban Planning, and must be approved by an advisor.
- An additional advisor-approved course (minimum 3 credits) to be selected from a discipline related to a student's particular interest in art history.

### Residency

15 of the required 30 elective credits must be taken in residence at Michigan or at off-campus sites directed by Michigan faculty. Courses directed to major requirements by exception can count toward the major residency requirement.

### Honors

To qualify for the [History of Art Honors Plan](#), a student must have an overall GPA of at least 3.4 and a GPA of at least 3.5 in the major. Honors students in History of Art enroll in HISTART 498 and 499 during

the fall and winter terms of the senior year, and are required to write a senior Honors thesis.

## ***History of Art (Minor)***

The History of Art minor offers students an introduction to the discipline's approach to humanistic study of the things that cultures around the world have made, looked at, and endowed with meaning. It will sharpen students' skills in visual and historical analysis and interpretation.

*Effective Winter 2018*

### **Exclusions:**

*A minor in History of Art is not open to students with a major in History of Art.*

### **Advising**

A major or minor in the History of Art is developed in consultation with a History of Art advisor. Appointments are scheduled through the departmental website: <http://lsa.umich.edu/histart/undergraduates/advising-appointments.html>

Majors and minors must consult with an advisor at least once a year.

**The History of Art Website.** For further information about the curriculum, student resources, faculty and staff, departmental events, and Helicon (the undergraduate art history association), please consult the History of Art website: [www.lsa.umich.edu/histart/](http://www.lsa.umich.edu/histart/)

### **Prerequisites**

None.

### **Requirements**

#### **Minimum Credits: 15**

A minimum of 15 credits (or five courses) in the History of Art. The selected courses must include:

- 6 credits at the 200 level.
- 6 credits at the 300 level or higher, including a 3-credit seminar.
- 3 additional credits at the 200 level or higher.
- completion of the History of Art Distribution Requirements for minors.

**Distribution Requirements:** There are two kinds of distribution requirements, one focusing on historical time periods and the other on different regions of the globe. The former familiarizes students with cultural practices associated with different historical moments, and the latter with a wide range of national and regional traditions. Minors in the History of Art are required to select 200-level or higher courses that correspond to at least **two of** the four time periods and **two of** the five regions listed below. Since each course counts towards one time period and one region, the distribution requirements can be satisfied with as few as two courses.

### **Time Periods**

1. Ancient
2. Medieval

3. Early Modern
4. Modern and Contemporary

### **Regions**

1. The Middle East (includes Western and Central Asia and North Africa)
2. Sub-Saharan Africa
3. Asia (includes China, Japan, India, South and Southeast Asia, and the Pacific)
4. Europe and the U. S.
5. Latin America and the Caribbean

# Honors Program

## *Honors in the Liberal Arts (Honors)*

Honors in the Liberal Arts (HLA) provides an alternative to the traditional Honors major as a means to earn an Honors degree. The degree is intended for Honors students who have been academically successful during the first and sophomore years and who wish to explore and develop deep interests across major boundaries through especially advanced work primarily outside the major. This work may be elected either in addition to an Honors major or to supplement a non-Honors major. The courses proposed for the HLA must represent areas or aspects of a central theme which span the curricula of several departments or programs. Only one HLA course may come from any of the student's major(s) or minor(s). HLA proposals will reflect the unique academic interests of each individual student. Students who make this choice will graduate with Honors in the Liberal Arts. It is possible for students to complete both Honors in the Liberal Arts and Honors major degrees if they complete a sufficiently rich and challenging curriculum outside the major in the third and fourth years.

*Effective Fall 2004*

### **Requirements**

1. Completion of the Honors Program requirements in the first two years: eight (8) Honors courses, including two (2) Texts and Ideas courses.
2. Submission of a proposal and list of potential courses to the [Honors Academic Board](#) before the end of the junior year. Students should consult with an advisor while preparing their proposal.
3. Five (5) HLA courses, each carrying departmental graduate credit (a minimum of 15 credits), to be selected in consultation with an Honors advisor. Four (4) must come from outside the student's major and minor.
4. Students will submit a portfolio of work completed in their HLA courses to the Honors Program in the term they plan to graduate. This work will be evaluated by a committee, which will include faculty, to ensure that the academic program is sufficiently rigorous and includes written expression of a caliber that will warrant awarding the HLA.
5. An overall GPA of 3.5.



# The Program on Intergroup Relations

## Intergroup Relations Education (Minor)

The Program on Intergroup Relations (IGR) is a social justice education program on the University of Michigan's Ann Arbor campus. As a joint venture of the College of Literature, Science, and Arts and the Division of Student Affairs, IGR works proactively to promote understanding of intergroup relations inside and outside of the classroom.

Multidisciplinary courses offered by IGR are distinguished by their experiential focus, teaching philosophy, and incorporation of dialogical models of communication.

Effective Fall 2015

### Advising

IGR has a tiered advising system where students initially meet with peer advisors who provide guidance and advising. If questions persist or cannot be answered by the peer advising team, the program directors will meet with students as needed.

The IGR program assistant will help with administrative tasks such as formally declaring students and verifying when students complete the minor.

### Prerequisites

None.

### Requirements

Minimum Credits: 19

1. **Foundation Core Courses.** Elect both:
  1. ALA 122/ PSYCH 122/ SOC 122: Intergroup Dialogues
  2. ALA 220 / SOC 218: Foundations of Intergroup Relations  
or  
PSYCH 218: Sophomore Seminar in Psychology as a Social Science, *section titled "Foundations of Intergroup Relations"*

The two courses provide the foundational theory and pedagogy of the minor. Intergroup dialogues give students the beginning tools to work across difference. They learn introductory social science concepts about inequality and experience conflict by working across difference. The Foundations of Intergroup Relations course gives students a solid overview of historical and contemporary structures of inequality, and examines the theory behind how social identity groups form, and how bias develops (prejudice, stereotyping, and discrimination). These two courses also explore how people develop an understanding of their own social identity group membership, how groups are impacted by privilege and power dynamics, and how to develop advocacy for groups to which one does not belong.

2. **Praxis Core Courses** emphasize praxis, the engagement of theory with practice and reflection. Choose one of the following tracks:

1. **The Facilitative Leadership Track** (7 credits) prepares students to lead others in addressing the demographic and democratic challenges posed by inequality. The practice focus occurs in the classroom, where students lead others in intergroup dialogue.
  - ALA 320 / SOC 320 / PSYCH 310: Processes of Intergroup Dialogues Facilitation
  - ALA 321 / SOC 321 / PSYCH 311: Practicum in Facilitating Intergroup Dialogues
2. **The Campus Communities and Research Track** (8 credits) allows students to explore praxis in broader community and research contexts and prepares them to understand inequality and develop coalitions for social justice work.
  - **Statistics.** STATS 250 or SOC 210. *Students may request to substitute another research methods class other than STATS 250 or SOC 210.*
  - **Social Psychology in Community Settings** (ALA 421) prepares students to recognize when social identities play a role in inequalities both on and off campus, to intervene in constructive ways when this happens, and to learn to act as peer educators in community settings, including residence halls and other campus-based settings.
  - **IGR Research Practicum** (ALA 323, PSYCH 326, or SOC 394 [taken for at least 2 credits]) allows students to practice intergroup skills in a more traditional academic setting: the research laboratory, as they are deepening their intergroup learning through the research process.
3. **Elective Course:** Students take at least one 3- or 4-credit course in another academic unit that complements the goals of the minor. Students may also propose additional courses for consideration. The criteria used for selection include: The course must address social identities and intergroup relations in some way, and the course should discuss issues of inequality, power, privilege, and oppression or should focus on leadership and social change. (See below.)
4. **IGR Senior Capstone:** ALA 429 / SOC 471 / PSYCH 411: IGR Senior Capstone: Social Justice in the Real World – an interdisciplinary experience to connect their learning throughout the minor. Students consider the broad national and global challenges facing their generation and examine them using real-world settings.

### Intergroup Relations Education Approved Electives

- AAS 202: Introduction to Afro-Caribbean Studies

- AAS 248: Crime, Race, and the Law
- AAS 262 / HISTORY 272: Modern Civil Rights Movement
- AAS 263: Race, Housing, and Employment
- AAS 358: Topics in Black World Studies, *section titled "Race, Racism, and American Humor"*
- AAS 451: Law, Race, and the Historical Process, II
- ALA 228 / SOC 375 / PSYCH 312: Intergroup Conflict & Coexistence: Religion, Ethnicity, & Culture
- AMCULT 215 / ARABAM 215 / NEAREAST 275: Introduction to Arab-American Studies
- AMCULT 217 / NATIVAM 217: Introduction to Native American Studies
- AMCULT 240 / WOMENSTD 240: Introduction to Women's Studies
- AMCULT 353 / ASIANPAM 353 / HISTORY 454: Asians in American Film and Television
- AMCULT 411 / WOMENSTD 411: Rednecks, Queers, and Country Music
- ANTHRCUL 302 / WOMENSTD 302 / HISTART 302: Sex and Gender in Japan
- ARABAM 215 / AMCULT 215 / NEAREAST 275: Introduction to Arab-American Studies
- ASIANPAM 353 / AMCULT 353 / HISTORY 454: Asians in American Film and Television
- COMM 428: Gender, Media, and the Law
- EDUC 463: Web-Based Mentorship: Arab-Israel Conflict Simulation
- ENVIRON 203 / ORGSTUDY 203: Activism
- HISTART 302 / ANTHRCUL 302 / WOMENSTD 302: Sex and Gender in Japan
- HISTORY 272 / AAS 262: Modern Civil Rights Movement
- HISTORY 349 / LACS 349: Revolutionary Movements in Modern Latin America
- HISTORY 454 / AMCULT 353 / ASIANPAM 353: Asians in American Film and Television
- INTLSTD 401: International Studies Advanced Seminar, *section titled "Women and Islam: The Politics of Representation"*
- LACS 349 / HISTORY 349: Revolutionary Movements in Modern Latin America
- NEAREAST 275 / AMCULT 215 / ARABAM 215: Introduction to Arab-American Studies
- ORGSTUDY 203 / ENVIRON 203: Activism
- PSYCH 280: Introduction to Social Psychology
- PSYCH 291 / WOMENSTD 291: Introduction to the Psychology of Women and Gender
- PSYCH 312 / ALA 228 / SOC 375: Intergroup Conflict & Coexistence: Religion, Ethnicity, & Culture
- PSYCH 353: Social Development
- RCSSCI 360: Social Science Junior Seminar, *section titled "Transgender Politics and Community Action"*
- SM 421 / WOMENSTD 421: Gender and Sport
- SOC 345 / WOMENSTD 348: Sociology of Sexuality
- SOC 346: Sociology of the Body
- SOC 368: Criminology
- SOC 375 / ALA 228 / PSYCH 312: Intergroup Conflict & Coexistence: Religion, Ethnicity, & Culture
- SOC 447 / WOMENSTD 447: Sociology of Gender
- SOC 458: Sociology of Education
- WOMENSTD 240 / AMCULT 240: Introduction to Women's Studies
- WOMENSTD 245: Introduction to LGBT and Queer Studies
- WOMENSTD 291 / PSYCH 291: Introduction to the Psychology of Women and Gender
- WOMENSTD 302 / ANTHRCUL 302 / HISTART 302: Sex and Gender in Japan
- WOMENSTD 330: Feminist Thought
- WOMENSTD 348 / SOC 345: Sociology of Sexuality
- WOMENSTD 411 / AMCULT 411: Rednecks, Queers, and Country Music
- WOMENSTD 421 / SM 421: Gender and Sport
- WOMENSTD 447 / SOC 447: Sociology of Gender

# Program in International and Comparative Studies

The Program in International and Comparative Studies (PICS) seeks to be a focal point for the interdisciplinary study of issues that transcend borders. We encourage students and faculty to broaden their horizons while they deepen their knowledge of particular cultures and political, economic, and social contexts. We administer one of the fastest growing and largest undergraduate programs on campus in the form of both a **major** and **minor** as well as [fellowship support](#) for students

Knowledge and insight pertaining to global affairs and different societies and cultures are more important than ever in today's interconnected world. A well-developed international perspective contributes to personal intellectual growth, is an increasingly important component of America's civic culture, and is required for success in an expanding number of professions.

## Subplans

- [International Security, Norms & Cooperation](#)
- [Political Economy & Development](#)
- [Comparative Culture & Identity](#)
- [Global Environment & Health](#)

## Comparative Culture & Identity (CCI) (Sub-Major)

In this sub-plan, students take courses that help them understand the richness of behavioral, literary, and artistic expressions reflecting the diversity of the human experience. Among topics covered are theories of culture, theories of identity, comparative belief systems and societal organizations, nationalism, comparative literary and film traditions, comparative ideologies, colonialism and post-colonialism, global arts, comparative gender studies, and cultural transmission. Students gain an ability to analyze historical and global trends in these topics, and to compare experiences of diverse communities and diverse individuals across time and space.

*Effective Fall 2016*

### Requirements

**Additional Pre-requisites and/or requirements are listed on the [International Studies Major page](#).**

1. **Language Requirement:** Sixth term proficiency.
2. **Core Courses (7 credits):**
  - INTLSTD 301: Topics in International Studies
  - INTLSTD 401: International Studies Advanced Seminar
3. **Methods of CCI (3 credits):** At least one course chosen from the following list:
  - ANTHRCUL 222: The Comparative Study of Cultures
  - COMPLIT 322: Translating World Literatures
  - SOC 210: Elementary Statistics

*Note: Completion of the Methods requirement is recommended prior to enrolling in INTLSTD 301.*

4. **Regional Course (3 credits):** One geographic emphasis course devoted to a single world region or country that is related to foreign language of study.
5. **CCI Courses (12 credits):** Four courses, chosen from an approved list (see below), to gain knowledge in sub-plan area.
  - **Globalization and Culture:** One course chosen from the following list:
    - COMPLIT 240: Literature Across Borders
    - INTLSTD 205 / HISTORY 101: What is History?
    - ROMLANG 253: The Mediterranean: History and Culture
  - At least one course must be at the 400 level.
  - Must include at least two academic subjects.

*Note: Complete term specific sub-plan course lists may be found on the [PICS courses website](#).*

6. **Three electives (9 credits):** The electives are designed to allow students to further personalize their major. Students will elect three advanced courses which will be expected to build upon the theme of their sub-plans. The selected courses should thus contribute to the coherence of the student's overall concentration. Students may select additional sub-plan, regional, or relevant study abroad courses, however there is no preapproved list of electives. Because there is no preapproved list, students must seek and obtain the approval of elective courses - on a course-by-course basis - from a PICS advisor. It is strongly advised that this approval be obtained before taking the class.

**CCI courses** include, but are not limited to:

- AAS 247 / HISTORY 247: Modern Africa
- AAS 355 / ANTHRCUL 355 / HISTORY 355: Health and Illness in African Worlds
- AAS / ENGLISH 385: African Literature
- AAS 422 / ANTHRCUL 411: African Cultures
- AAS 407 / HISTART 406: Looking at African Things
- AAS 458: Issues in Black World Studies, *sections titled "Human Rights & LGBTI in Sub-Saharan Africa"*

*"Business & Politics in Developing Countries"*  
*"Fighting with Human Rights – Africa"*

- ANTHRCUL 222: Comparative Study of Cultures
- ANTHRCUL 256 / ENVIRON 256: Culture, Adaptation and Environment
- ANTHRCUL 319: Latin American Society and Culture
- ANTHRCUL 325 / WOMENSTD 324: Childbirth & Culture
- ANTHRCUL 328: Globalizing Consumer Cultures
- ANTHRCUL 333: Non-Western Legal Systems, I
- ANTHRCUL 349: Indigenous Political Movements
- ANTHRCUL 355 / HISTORY 355 / AAS 355: Health and Illness in African Worlds
- ANTHRCUL / LING 374: Language and Culture
- ANTHRCUL 411 / AAS 422: African Cultures
- ASIAN 343: SE Asian Politics through the Arts
- ASIAN 307 / HISTORY 308 / RELIGION 307: Eat, Pray, Love: Devotional Traditions in South Asia
- COMM 447: Women and Islam: The Politics of Representation
- COMM 455: Global Visual Cultures
- COMPLIT 212 / GTBOOKS 212: Great Books in World Literature
- COMPLIT 240: Literature Across Borders, *section titled "Matters of Life and Death"*
- COMPLIT 322: Translating World Literatures
- COMPLIT 490: Comparative Cultural Studies, *section titled "Narratives of Immigration"*
- ENGLISH 375: World Literatures in English
- ENGLISH / AAS 385: African Literature
- ENVIRON 256 / ANTHRCUL 256: Culture, Adaptation and Environment
- GTBOOKS 212 / COMPLIT 212: Great Books in World Literature
- HISTART / NEAREAST 285: Visual Culture in Islam
- HISTART 406 / AAS 407: Looking at African Things
- HISTORY 241: America and Middle Eastern Wars
- HISTORY 247 / AAS 247: Modern Africa
- HISTORY / JUDAIC 290 / NEAREAST 387: Jews and Muslims
- HISTORY 308 / ASIAN / RELIGION 307: Eat, Pray, Love: Devotional Traditions in South Asia
- HISTORY 328: Humanities Topics in History, *section titled "A Global History of the Jews of Spain"*
- HISTORY 355 / ANTHRCUL 355 / AAS 355: Health and Illness in African Worlds
- HISTORY 407: Advanced Study in Comparative and Transnational History, *sections titled "Japan, Asia and WWII: Culture, History, Memory" "Christ. & Pol. In Afr. Hist"*
- INTLSTD 389: Topics in Comparative Culture and Identity
- INTLSTD 401: International Studies Advanced Seminar, *sections titled "Human Rights & LGBTI in Sub-Saharan Africa" "Women and Islam: The Politics of Representation" "Fighting with Human Rights – Africa" "Christ. & Pol. In Afr. Hist" "Humanitarian Dilemmas" "Migration, Human Smugglings and Trafficking" "Business & Politics in Developing Countries"*
- INTLSTD 489: Topics in Comparative Culture and Identity
- JUDAIC 253: The Mediterranean: Jewish Studies
- JUDAIC / HISTORY 290 / NEAREAST 287: Jews and Muslims
- JUDAIC 360 / NEAREAST 386: A Global History of Jews in Spain
- LING / ANTHRCUL 374: Language and Culture
- NEAREAST 200 / RELIGION 201: Introduction to World Religions: Near Eastern
- NEAREAST / HISTART 285: Visual Culture in Islam
- NEAREAST 287 / HISTORY / JUDAIC 290: Jews and Muslims
- NEAREAST 386 / JUDAIC 360: A Global History of Jews in Spain
- POLSCI 353: The Arab-Israeli Conflict
- POLSCI 489: Advanced Topics in Contemporary Political Science, *section titled "Business & Politics in Developing Countries"*
- RELIGION 201 / NEAREAST 200: Introduction to World Religions: Near Eastern
- RELIGION / AAS 307 / HISTORY 308: Eat, Pray, Love: Devotional Traditions in South Asia
- SOC 350: Human Rights in the United Nations
- SOC 495: Topics in Sociology, *section titled "Global and Local Connections: Understanding our World at Home and Abroad"*
- WOMENSTD 324 / ANTHRCUL 325: Childbirth & Culture

## **Global Environment & Health (GEH) (Sub-Major)**

In this sub-plan, students take courses that help them understand the latest knowledge on global trends in public health and in the natural environment as it intersects with the human experience. Among topics covered are global public health, comparative health policy, pandemics, comparative environmental policy-making, comparative history of mental health treatments across countries, environmental disasters, and climate change. Students gain an ability to analyze historical and

global trends in these topics, and to compare experiences of diverse communities and peoples across time and space.

*Effective Fall 2016*

### Requirements

**Additional Pre-requisites and/or requirements are listed on the [International Studies Major page](#).**

1. **Language Requirement:** Sixth term proficiency.
2. **Core Courses (7 credits):**
  - INTLSTD 301: Topics in International Studies
  - INTLSTD 401: International Studies Advanced Seminar
3. **Research Methods Course (3 credits):** One research methods course chosen from the following list:
  - CMPLXSYS 391 / POLSCI 391. Introduction to Modeling Political Processes
  - ECON 309: Experimental Economics
  - ECON 401: Intermediate Microeconomic Theory
  - ECON 451 (or 405 prior to Fall 2014): Intermediate Introduction to Statistics and Econometrics
  - POLSCI 300 (or 499 prior to Winter 2016): Quantitative Empirical Methods of Political Science
  - POLSCI 391 / CMPLXSYS 391: Introduction to Modeling Political Processes
  - POLSCI 490: Game Theory & Formal Models
  - SOC 310: Introduction to Research Methods
  - STATS 250: Introduction to Statistics & Data Analysis

*Note: Completion of the Methods requirement is recommended prior to enrolling in INTLSTD 301.*

4. **Regional Course (3 credits):** One geographic emphasis course devoted to a single world region or country that is related to foreign language of study.
5. **GEH Courses (12 credits):** Four courses, chosen from an approved list (see below), to gain knowledge in sub-plan area.
  - At least one course must be at the 400 level.
  - Must include at least two academic subjects.

*Note: Complete term specific sub-plan course lists may be found on the [PICS courses website](#).*

6. **Three electives (9 credits):** The electives are designed to allow students to further personalize their major. Students will elect three advanced courses which will be expected to build upon the theme of their sub-plans. The selected courses should thus contribute to the coherence of the student's overall concentration. Students may select additional sub-plan, regional, or relevant study abroad courses, however there is no preapproved list of electives. Because there is no preapproved list, students *must* seek and obtain the approval of elective courses - on a course-by-course basis - **from a PICS advisor**. It is strongly advised that this approval be obtained *before* taking the class.

**GEH courses** include, but are not limited to:

- AAS 355 / ANTHRCUL 355 / HISTORY 355: Health and Illness in African Worlds
- AAS 365 / WOMENSTD 365: Global Perspectives on Gender, Health & Reproduction
- AMCULT 284 / HISTORY 284: Sickness & Health in Society: 1492 to the Present
- ANTHRCUL 212 / WOMENSTD 212 / NURS 225: The Global HIV/AIDS Epidemic
- ANTHRCUL 256 / ENVIRON 256: Culture, Adaptation and Environment
- ANTHRCUL 325 / WOMENSTD 324: Childbirth & Culture
- ANTHRCUL 344: Medical Anthropology
- ANTHRCUL 355 / HISTORY 355 / AAS 355: Health and Illness in African Worlds
- EARTH 201 / ENVIRON 209 / GEOG 201: Introduction to Environmental Science and Geography
- EARTH / ENVIRON 380: Mineral Resources, Economics & the Environment
- EEB 315 / ENVIRON 315: The Ecology and Evolution of Infectious Diseases
- ENVIRON 209 / EARTH / GEOG 201: Introduction to Environmental Science and Geography
- ENVIRON 222: Introduction to Environmental Justice
- ENVIRON 256 / ANTHRCUL 256: Culture, Adaptation and Environment
- ENVIRON 270: Our Common Future: Ecology, Economics & Ethics of Sustainable Development
- ENVIRON 302: Topics in Environmental Social Science, *section titled "Energy Politics"*
- ENVIRON 306: Global Water
- ENVIRON 315 / EEB 315: The Ecology and Evolution of Infectious Diseases
- ENVIRON 345 / POLSCI 331 / SOC 380: Environmental Public Opinion Analysis
- ENVIRON 365: International Environmental Policy
- ENVIRON / EARTH 380: Mineral Resources, Economics & the Environment
- ENVIRON 490: War and Environment: A Lethal Reciprocity
- GEOG / EARTH 201 / ENVIRON 209: Introduction to Environmental Science and Geography
- HISTORY 284 / AMCULT 284: Sickness & Health in Society: 1492 to the Present
- HISTORY 355 / ANTHRCUL 355 / AAS 355: Health and Illness in African Worlds

- INTLSTD 387: Topics in Global Environment and Health, *section titled "Implementation Solutions for Global Health Equity"*
- INTMED 387: Implementation Solution for Global Health Equity
- NRE 501: Grad Experimental, *section titled, "Foundations of Sustainable Food Systems"*
- NURS 225 / ANTHRCUL 212 / WOMENSTD 212: The Global HIV/AIDS Epidemic
- NURS 421: Perspectives in Global Health
- POLSCI 331 / ENVIRON 345 / SOC 380: Environmental Public Opinion Analysis
- SEAS / UC 215: Contemporary Social Issues in SE Asia
- SOC 380 / POLSCI 331 / ENVIRON 345: Environmental Public Opinion Analysis
- SOC 475: Introduction to Medical Sociology
- UC / SEAS 215: Contemporary Social Issues in Southeast Asia
- WOMENSTD 212 / ANTHRCUL 212 / NURS 225: The Global HIV/AIDS Epidemic
- WOMENSTD 324 / ANTHRCUL 325: Childbirth & Culture
- WOMENSTD 365 / AAS 365: Global Perspectives on Gender, Health & Reproduction

- ECON 309: Experimental Economics
- ECON 401: Intermediate Microeconomic Theory
- ECON 451 (or 405 prior to Fall 2014): Intermediate Introduction to Statistics and Econometrics
- POLSCI 300 (or 499 prior to Winter 2016): Quantitative Empirical Methods of Political Science
- POLSCI 391: Introduction to Modeling Political Processes
- POLSCI 490: Game Theory & Formal Models
- SOC 310: Introduction to Research Methods
- STATS 250: Introduction to Statistics & Data Analysis

*Note: Completion of the Methods requirement is recommended prior to enrolling in INTLSTD 301.*

4. **Regional Course (3 credits):** One geographic emphasis course devoted to a single world region or country that is related to foreign language of study.
5. **ISNC Courses (12 credits):** Four courses, chosen from an approved list (see below), to gain knowledge in sub-plan area.
  - At least one course must be at the 400 level.
  - Must include at least two academic subjects.

*Note: Complete term specific sub-plan course lists may be found on the [PICS courses website](#).*

6. **Three electives (9 credits):** The electives are designed to allow students to further personalize their major. Students will elect three advanced courses which will be expected to build upon the theme of their sub-plans. The selected courses should thus contribute to the coherence of the student's overall concentration. Students may select additional sub-plan, regional, or relevant study abroad courses, however there is no preapproved list of electives. Because there is no preapproved list, students *must* seek and obtain the approval of elective courses - on a course-by-course basis - **from a PICS advisor**. It is strongly advised that this approval be obtained *before* taking the class.

**ISNC courses** include, but are not limited to:

- ANTHRCUL 333: Non-Western Legal Systems, I
- ANTHRCUL 346 / HISTORY 347: Latin America: The Colonial Period
- AAS 458: Issues in Black World Studies, *section titled "Fighting with Human Rights – Africa"*
- COMM 447: Women and Islam: The Politics of Representation
- ENVIRON 365: International Environmental Policy
- ENVIRON 490: War and Environment: A Lethal Reciprocity
- HISTORY 254: Europe, 1648-Present: Legacies of War, Empire, and Revolution
- HISTORY 241: America and Middle Eastern Wars
- HISTORY 347 / ANTHRCUL 346: Latin America: The Colonial Period

## ***International Security, Norms & Cooperation (ISNC) (Sub-Major)***

In this sub-plan, students take courses that help them reason about the international system of nation-states and of peoples with both competing and overlapping interests. Among topics covered are international relations, human rights, human security, international organizations, transnational social movements, war-making and peace-making, intra- and inter-state violence. Students gain an ability to analyze historical and contemporary global trends in these topics, and to compare experiences of nation-states and peoples across time and space.

*Effective Fall 2016*

### **Requirements**

**Additional Pre-requisites and/or requirements are listed on the [International Studies Major page](#).**

1. **Language Requirement:** Sixth term proficiency.
2. **Core Courses (7 credits):**
  - INTLSTD 301: Topics in International Studies
  - INTLSTD 401: International Studies Advanced Seminar
3. **Research Methods Course (3 credits):** One research methods course chosen from the following list:
  - CMLXSYS 391 / POLSCI 391. Introduction to Modeling Political Processes

- HISTORY 407: Advanced Study in Comparative and Transnational History, *sections titled* "Japan, Asia and WWII: Culture, History, Memory" "Gender, Sexuality, & International Human Rights" "Christianity and Politics in African History"
- HISTORY 478: Topics in Latin American History, *section titled* "The Colonial Period"
- INTLSTD 386: Topics in International Security, Norms and Cooperation
- INTLSTD 401: International Studies Advanced Seminar, *sections titled* "Women and Islam: The Politics of Representation" "Fighting with Human Rights – Africa" "Migration, Human Smugglings and Trafficking" "History and Memory of Genocide" "Gender, Sexuality, & International Human Rights" "Christianity and Politics in African History" "Norm Diffusion: International, Regional & Public Policy" "The Politics of Debt"
- INTLSTD 486: Topics in International Security, Norms and Cooperation
- NAVSCI / UC 410: Evolution of Warfare
- POLSCI 353: The Arab-Israeli Conflict
- POLSCI 364: Public International Law
- POLSCI 368: Modern Warfare
- POLSCI 369: Politics of International Economic Relations
- POLSCI 389: Topics in Contemporary Political Science, *section titled* "Democracy and Development in Africa"
- POLSCI 498: Undergraduate Seminar in International Politics, *sections titled* "Norm Diffusion: International, Regional & Public Policy" "The Politics of Debt"
- RCSSCI 461: Senior Seminar, *section titled* "Gender, Sexuality, & International Human Rights"
- RCSSCI 461: Senior Seminar, *section titled* "Gender, Sexuality, & International Human Rights"
- SOC 350: Human Rights in the United Nations
- SOC 495: Topics in Sociology, *section titled* "Global and Local Connections: Understanding our World at Home and Abroad"
- UC 270: UC Special Topics, *sections titled* "Addressing Critical Global Issues", and "GSP: Defining Critical Global Issues"
- UC / NAVSCI 410: Evolution of Warfare
- WOMENSTD 346: Special Topics in Gender in a Global Context, *section titled* "Women's Policies and Society in India"

## International Studies (Major)

The major in International Studies offers students the opportunity to take a set of courses across departments to bring multiple methods and concepts together to address global problems. The major is rigorous

and offers a balanced approach between disciplinary depth and cross-disciplinary breadth.

It is an opportunity for students to create a curriculum that combines exposure to disciplinary depth and integrative coursework emphasizing successful interdisciplinary research. Our goal is to give students skills in moving among different units of analysis and different disciplinary approaches in order to understand, analyze, and ultimately help solve contemporary problems. International Studies students will be exposed to a rigorous curriculum emphasizing the use of multiple methods of analysis of such topics as terrorism, global health trends, human rights and refugees, cultural homogenization and hybridization, environmental and energy crises, transnational religious movements, and the spread of technology. The major will draw on methods developed in specific disciplines such as economics, sociology, psychology, comparative literature, political science, anthropology, and history, and some methods emerging from cross-disciplinary and interdisciplinary fields.

Effective Fall 2016

### Advising

The International Studies Advisor will assist students in developing a program of study. Advising for the Honors plan is provided by the PICS Director and the PICS Honors Thesis advisor. For more information, see: [www.ii.umich.edu/pics/undergraduates/advising](http://www.ii.umich.edu/pics/undergraduates/advising)

### Grade Policies

Students must earn C- or better in all required PICS courses. Language requirement courses are not included in the minimum 34 credits required for the major nor in the major GPA.

### Prerequisites

The following requirements must be met before declaration:

- INTLSTD 101 (Grade of C- or better)
- Students declaring Political Economy & Development sub-plan must complete ECON 101 with a grade of C- or better.
- Students must have started or completed 4th-term language proficiency.

### Requirements

#### Minimum Credits: 34

#### PICS Language Requirement for the Major.

Sixth-term proficiency in a language other than English must be obtained prior to graduation; therefore, *students should begin the language sequence early.*

We believe that language study is a vital part of any liberal arts education and that students who major in international studies should be well prepared to work in environments overseas, or in companies or organizations that interact regularly with people from other countries. The PICS language requirement will not only be of benefit to the students in broadening their skills and their vision of the world but will also be an important signal to employers or graduate admissions committees about how our students are well-rounded and focused on the world and not just the United States.

Please see [PICS website](#) for details of and further information about the sixth-term language requirement.

See Sub-Plans for course requirements:

- [International Security, Norms & Cooperation \(ISNC\)](#)
- [Political Economy & Development \(PED\)](#)
- [Comparative Culture & Identity \(CCI\)](#)
- [Global Environment & Health \(GEH\)](#)

### Honors

Students interested in an Honors major elect the Honors section of INTLSTD 101, and must complete INTLSTD 101 with a grade of B+ or better. Students who have declared a major in International Studies must have an overall GPA of 3.4, must complete all International Studies requirements for the major with a 3.4 or higher average in those courses, and complete a senior Honors thesis.

*Students must earn C- or better in all required PICS courses.*

During their senior year, students writing a thesis will enroll in INTLSTD 489 during Fall term and INTLSTD 499 during Winter term. The thesis will have a minimum length of 50 pages. Students are responsible for locating their own thesis advisor. Advisor and topic must be approved by PICS director.

An instructor will oversee the Honors plan. This will include a class meeting with all Honors thesis students as a collective, at least twice per semester of their senior year, and once at the end of their junior year, to review requirements, answer questions, and discuss research practices and principles.

Each student will have an oral defense of the thesis in a meeting with the advisor and the PICS instructor, plus one outside reader from the faculty.

Student grades on the thesis will be determined by the PICS instructor in consultation with the thesis advisor.

Advising for the Honors plan is provided by the Honors thesis advisor and the PICS Honors Plan advisor.

## International Studies (Minor)

The International Studies Minor is intended to be a rigorous program of study. It will be of interest to students prepared to make a serious investment in adding an international dimension to the instructional program associated with a disciplinary major.

The Minor in International Studies offers students an opportunity to add to their disciplinary major a program of study that includes the following:

1. attention to another country or world region;
2. interdisciplinary coursework devoted to a particular theme or topic of international relevance;
3. progress toward proficiency in a foreign language;
4. support for an education abroad experience; and
5. an innovative interdisciplinary seminar

*Effective Fall 2009*

### Exclusions:

*Not open to student with a major in International Studies.*

### Advising

The International Studies Advisor will assist students in developing a program of study. Advising for the Honors plan is provided by the PICS

Director and the PICS Honors Thesis advisor. For more information, see: <http://www.ii.umich.edu/pics/undergraduates/advising.html>

### Prerequisites

Sixth-term **proficiency** in a language other than English must be satisfied through the study of a language used in the country or world area that is the focus of geographic coursework. The Director of the Program in International and Comparative Studies (PICS) will consider requests involving a different language, but it is expected that students will in all cases complete at least one year of coursework in a language used in the region of geographic emphasis. *Any exceptions to the PICS language requirement must be approved by written consent of the PICS Director.*

### Requirements

#### Minimum Credits: 18

Students are required to complete a minimum of 18 credits of course work, exclusive of language study. These courses must include the following:

1. A **"geographic" emphasis** composed of three courses devoted to a single world region (e.g., Africa, South Asia) or country (e.g., China, India). At least two of the three geographic courses must be 300-level or above.
2. A **"thematic" emphasis** composed of three courses devoted to a given theme or topic (e.g., international conflict and security, human rights, music and ethnomusicology). At least two of the three thematic courses must be 300-level or above. At least two of the three thematic courses must give primary attention to countries or world regions beyond the United States. A third course devoted to the same theme can give significant attention to the United States if there is a clear intellectual reason for doing so.

**Geographic and thematic course selections must be approved by the International Studies Advisor.** Each three-course set must possess intellectual coherence, and there must also be a clear and logical connection between the focus of the selected geographic and thematic courses. The International Studies advisor will consult the Director of PICS and members of the PICS Advisory Committee for guidance in assessing a proposed program of study.

3. An **interdisciplinary International Studies Advanced Topics Seminar** will be offered for students in the minor. This course cannot be taken prior to the second term of the junior year. Students enrolled in the minor may take the course more than once, but it can only be counted once toward 18 credits required for the minor.
4. The International Studies Advanced Topics Interdisciplinary Seminar is a variable content course designed to bring an interdisciplinary perspective to the study of a topic of international significance. Some seminars will be team-taught and some will be taught by faculty with International Institute Sponsored Appointments. Seminars may occasionally be taught by visiting international scholars. At least one International Studies Seminar will be offered every year.

**Education Abroad.** An education abroad experience is strongly encouraged. The International Studies advisor, in cooperation with the [Center for Global and Intercultural Study \(CGIS\)](#), will assist students in identifying education abroad opportunities consistent with their needs and interests. At least 10 credits toward the minor must be taken



in residence (which can include courses in U-M study abroad programs).

Limited funding will be made available to students in the International Studies Minor to encourage and facilitate participation in education abroad programs. Applications for these funds should demonstrate a connection between the overseas program and the student's area(s) of emphasis.

Although strongly encouraged, an education abroad experience is not required for the International Studies Academic Minor since some students may be unable to meet this requirement because of financial, family, or other considerations.

### Constraints

One course can be "double-counted" and thus count for both the geographic and the thematic major requirement. It is expected that most students will choose to double-count one course; those not choosing to do so will be required to complete 21 credits of coursework for the International Studies Minor.

The five or six geographic and thematic courses taken by a student must be from at least two academic disciplines. No more than one of these courses may be offered by the department of the student's disciplinary major (major). If the courses are taught by faculty members in a single department (e.g., Women's Studies, German, ALC, NES), the faculty members must be from at least two different disciplines.

## Political Economy & Development (PED) (Sub-Major)

In this sub-plan, students take courses that help them reason about the global economy and about comparing the political economies of nation-states and regions. Among topics covered are international economics, the political economy of development, regulation of economies, international trade, political contestation over economics, government budgeting, comparative labor economics, and political-economic history. Students gain an ability to analyze historical and contemporary global trends in these topics, and to compare experiences of nation-states and peoples across time and space.

*Effective Fall 2016*

### Prerequisites

ECON 101 (Grade of C- or better).

### Requirements

**Additional Pre-requisites and/or requirements are listed on the [International Studies Major page](#).**

1. **Language Requirement:** Sixth term proficiency.
2. **Core Courses (7 credits):**
  - INTLSTD 301: Topics in International Studies
  - INTLSTD 401: International Studies Advanced Seminar
3. **Research Methods Course (3 credits):** One research methods course chosen from the following list:
  - CMPLXSYS 391 / POLSCI 391. Introduction to Modeling Political Processes
  - ECON 309: Experimental Economics

- ECON 401: Intermediate Microeconomic Theory
- ECON 451 (or 405 prior to Fall 2014): Intermediate Introduction to Statistics and Econometrics I
- POLSCI 300 (or 499 prior to Winter 2016): Quantitative Empirical Methods of Political Science
- POLSCI 391 / CMPLXSYS 391: Introduction to Modeling Political Processes
- POLSCI 490: Game Theory & Formal Models
- SOC 310: Introduction to Research Methods
- STATS 250: Introduction to Statistics & Data Analysis

*Note: Completion of the Methods requirement is recommended prior to enrolling in INTLSTD 301.*

4. **Regional Course (3 credits):** One geographic emphasis course devoted to a single world region or country that is related to foreign language of study.
5. **PED Courses (12 credits):** Four courses, chosen from an approved list (see below), to gain knowledge in sub-plan area.
  - At least one course must be an ECON course on approved sub-plan list. (Note: these courses may have additional prerequisites.)
  - At least one course must be at the 400 level.
  - Must include at least two academic subjects.

*Note: Complete term specific sub-plan course lists may be found on the [PICS courses website](#).*

6. **Three electives (9 credits):** The electives are designed to allow students to further personalize their major. Students will elect three advanced courses which will be expected to build upon the theme of their sub-plans. The selected courses should thus contribute to the coherence of the student's overall concentration. Students may select additional sub-plan, regional, or relevant study abroad courses, however there is no preapproved list of electives. Because there is no preapproved list, students *must* seek and obtain the approval of elective courses - on a course-by-course basis - **from a PICS advisor**. It is strongly advised that this approval be obtained *before* taking the class.

**PED courses** include, but are not limited to:

- AAS 408: African Economies: Social and Political Settings
- AAS 458: Issues in Black World Studies, *section titled "Business & Politics in Developing Countries"*
- ANTHRCUL 328: Globalizing Consumer Cultures
- ECON 340: International Economics
- ECON 441: International Trade Theory
- ECON 442: International Finance
- ECON 461: The Economics of Development I
- ENVIRON 270: Our Common Future: Ecology, Economics & Ethics of Sustainable Development

- HISTORY / SOC 332 / POLSCI / REEES / SLAVIC 395: Russia and the Soviet Union: Reform, Revolution, and the Socialist Experiment
- INTLSTD 401: International Studies Advanced Seminar, *sections titled*  
*"Humanitarian Dilemmas"*  
*"Migration, Human Smugglings and Trafficking"*  
*"Business & Politics in Developing Countries"*  
*"Origins of Economic Growth"*  
*"Norm Diffusion: International, Regional & Public Policy"*  
*"The Politics of Debt"*
- POLSCI 348: Political Economy of Development
- POLSCI 353: The Arab-Israeli Conflict
- POLSCI 355: Democracy and Development in Africa
- POLSCI 369: Politics of International Economic Relations
- POLSCI / REEES / SLAVIC 395 / HISTORY / SOC 332: Russia and the Soviet Union: Reform, Revolution, and the Socialist Experiment
- POLSCI 396 / SLAVIC 396 / REEES 396 / SOC 393: East Central Europe: Nationalism, Socialism, Democracy
- POLSCI 489: Advanced Topics in Contemporary Political Science, *sections titled*  
*"Business & Politics in Developing Countries"*  
*"African Economies: Social and Political Settings"*
- POLSCI 497: Undergraduate Seminar in Comparative and Foreign Government, *section titled "Development & the Quality of Governance"*
- POLSCI 498: Undergraduate Seminar in International Politics, *sections titled*  
*"Politics of International Finance"*  
*"Norm Diffusion: International, Regional & Public Policy"*  
*"The Politics of Debt"*
- REEES / POLSCI / SLAVIC 395 / HISTORY / SOC 332: Russia and the Soviet Union: Reform, Revolution, and the Socialist Experiment
- REEES 396 / SLAVIC 396 / POLSCI 396 / SOC 393: East Central Europe: Nationalism, Socialism, Democracy
- SLAVIC / POLSCI / REEES 395 / HISTORY / SOC 332: Russia and the Soviet Union: Reform, Revolution, and the Socialist Experiment
- SLAVIC 396 / POLSCI 396 / REEES 396 / SOC 393: East Central Europe: Nationalism, Socialism, Democracy
- SOC / HISTORY 332 / POLSCI / REEES / SLAVIC 395: Russia and the Soviet Union: Reform, Revolution, and the Socialist Experiment
- SOC 393 / SLAVIC 396 / POLSCI 396 / REEES 396: East Central Europe: Nationalism, Socialism, Democracy
- STRATEGY 310: The World Economy
- STRATEGY 361: International Management

# Jean and Samuel Frankel Center for Judaic Studies

## Judaic Studies (Major)

A major in Judaic Studies enhances vital skills in research and writing, critical and creative thinking, cultural awareness, public speaking, and persuasive communicating. Judaic Studies majors pursue careers in Jewish communal services, social work, education, development, political advocacy, religious leadership, law, medicine, business, and other professional fields.

*Effective Fall 2016*

### Exclusions:

*A major in Judaic studies is not open to students with a minor in Judaic Studies, a minor in Yiddish Studies, or a Hebrew Studies submajor from the Department of Near Eastern Studies*

### Advising

A student who is interested in a major in Judaic Studies should meet with the major advisor as early as possible to plan a coherent course of study. Please email [JudaicStudies@umich.edu](mailto:JudaicStudies@umich.edu) or call 734-615-6097 to schedule an appointment.

### Prerequisites

Second semester proficiency in Hebrew (HEBREW 102) or Yiddish (JUDAIC 102), achieved either through course work or placement examination.

### Requirements

#### Minimum Credits: 28

1. **Core.** At least two of the following
  - JUDAIC 205: What is Judaism?
  - JUDAIC 210: Sources of Jewish History
  - JUDAIC 281: Jews in Modern World
2. **Electives:** All courses must be at the 200-level or above and approved by a major advisor or chosen from the list below.

### Electives:

#### Judaic Studies

Any course in JUDAIC or YIDDISH at the 200-level or above, or crosslisted with JUDAIC or crosslisted with YIDDISH, except for elementary language courses (JUDAIC 201, 202, 531, 532 or GERMAN 227, 228 or YIDDISH 201, 202, 531, 532)

#### Courses in other departments

- ENGLISH 313. Topics in Literary Studies, *section titled "Literature of the Holocaust"*
- ENGLISH 317. Literature and Culture, sections titled "*Yiddish Classics*", or "*Yiddish Classics and Modernity*", or "*Literature of the Holocaust*"
- GERMAN 322 / HISTORY 322. The Origins of Nazism
- HEBREW 301. Advanced Hebrew I
- HEBREW 302. Advanced Hebrew II
- HISTORY 322 / GERMAN 322. The Origins of Nazism
- HISTORY 368 / AMCULT 342 / WOMENSTD 360. History of the Family in the U.S.
- NEAREAST 200 / RELIGION 201. Introduction to World Religions: Near Eastern
- NEAREAST 201. Madness, Medicine, and Magic in the Middle East
- NEAREAST 235 / RELIGION 121. Introduction to the Tanakh/Old Testament
- NEAREAST 238 / RELIGION 280. The Historical Jesus in Christianity, Judaism, and Islam
- NEAREAST 242 / RELIGION 270. Introduction to Rabbinic Literature
- NEAREAST 326. The Arab-Israeli Conflict in Middle Eastern Literature
- NEAREAST 335 / RELIGION 359. History and Religion of Ancient Judaism
- NEAREAST 339 / RELIGION 358. Israel Before the Exile (587 BCE): Its History & Religion
- NEAREAST 355 / CLARCH 327 / CLCIV 327 / RELIGION 326. Jews in the Roman Mediterranean: Archaeology, Religion, and Culture
- POLSCI 351. Israeli Society and Politics
- POLSCI 353. The Arab-Israeli Conflict
- RELIGION 121 / NEAREAST 235. Introduction to the Tanakh/Old Testament
- RELIGION 201 / NEAREAST 200. Introduction to World Religions: Near Eastern
- RELIGION 270 / NEAREAST 242. Introduction to Rabbinic Literature
- RELIGION 280 / NEAREAST 238. The Historical Jesus in Christianity, Judaism, and Islam
- RELIGION 326 / NEAREAST 355 / CLARCH 327 / CLCIV 327. Jews in the Roman Mediterranean: Archaeology, Religion, and Culture

- AMCULT 342 / HISTORY 368 / WOMENSTD 360. History of the Family in the U.S.
- CLARCH 327 / CLCIV 327 / NEAREAST 355 / RELIGION 326. Jews in the Roman Mediterranean: Archaeology, Religion, and Culture
- CLCIV 327 / CLARCH 327 / NEAREAST 355 / RELIGION 326. Jews in the Roman Mediterranean: Archaeology, Religion, and Culture

- RELIGION 358 / NEAREAST 339. Israel Before the Exile (587 BCE): Its History & Religion
- RELIGION 359 / NEAREAST 335. History and Religion of Ancient Judaism
- WOMENSTD 360 / HISTORY 368 / AMCULT 342. History of the Family in the U.S.

#### Constraints

- At least 12 credits must be at 300 or 400 level; at least one of these courses must be at the 400 level.
- Students may not use more than one Independent study course as an elective.
- Only advanced Hebrew and Yiddish language courses (300-level and 400-level) may count toward the major.

#### Residency

Fifteen of the 28 credits must be elected in residence unless special permission is given by the major advisor.

#### Honors

The Center offers an Honors plan to qualified Judaic Studies students. Application for an Honors plan is usually made at the beginning of the third year. Participation requires a 3.5 grade point average. Graduation with Honors is recommended for students who complete all College and Judaic Studies graduation requirements, maintain a 3.5 GPA, and write a substantial Honors thesis which is judged worthy of Honors designation by the thesis advisor and at least one other faculty reader. An Honors plan is not limited to students who have been in the College Honors Program in the first and second years. For more information about Honors, email [Ask.Honors@umich.edu](mailto:Ask.Honors@umich.edu) or call 734.764.6274.

## Judaic Studies (Minor)

The minor in Judaic Studies provides a basic familiarity with Judaic Studies. It introduces students to Jewish cultures and societies. Judaic Studies courses explore the diverse experiences of the Jewish people, their traditions, their histories, their interactions with other cultures, and their impact on world civilizations. The fifteen credits required for a minor in Judaic Studies are tailored to complement and enrich the programs of students who come from a widespread range of disciplines. A degree in Judaic Studies enhances vital skills in research and writing, critical and creative thinking, cultural awareness, public speaking, and persuasive communicating. Judaic Studies minors pursue careers in Jewish communal services, social work, education, development, political advocacy, religious leadership, law, medicine, business, and other professional fields.

*Effective Fall 2016*

#### Exclusions:

*A minor in Judaic Studies is not open to students with a major in Judaic Studies, a minor in Yiddish Studies, or a Hebrew Studies submajor from the Department of Near Eastern Studies.*

#### Advising

A student who is interested in a minor in Judaic Studies should meet with the minor advisor as early as possible to plan a coherent course of study. Please email [JudaicStudies@umich.edu](mailto:JudaicStudies@umich.edu) or call 734-615-6097 to schedule an appointment.

#### Prerequisites

None.

#### Requirements

##### Minimum Credits: 15

1. **Core Courses:** At least one of the following three core courses:
  - JUDAIC 205: What is Judaism?
  - JUDAIC 210: Sources of Jewish History
  - JUDAIC 281: Jews in Modern World
2. **Electives.** The remainder of the 15 credits selected from the list below.

#### Judaic Studies

Any course in JUDAIC or YIDDISH at the 200-level or above, or crosslisted with JUDAIC or crosslisted with YIDDISH, except for elementary language courses (JUDAIC 201, 202, 531, 532 or GERMAN 227, 228 or YIDDISH 201, 202, 531, 532)

#### Courses in other departments

- AMCULT 342 / HISTORY 368 / WOMENSTD 360: History of the Family in the U.S.
- CLARCH 327 / CLCIV 327 / NEAREAST 355 / RELIGION 326: Jews in the Roman Mediterranean: Archaeology, Religion, and Culture
- CLCIV 327 / CLARCH 327 / NEAREAST 355 / RELIGION 326: Jews in the Roman Mediterranean: Archaeology, Religion, and Culture
- ENGLISH 313: Topics in Literary Studies, section titled "Literature of the Holocaust"
- ENGLISH 317: Literature and Culture, *sections titled "Yiddish Classics", "Yiddish Classics and Modernity", or "Literature of the Holocaust"*
- GERMAN 322 / HISTORY 322: The Origins of Nazism
- HEBREW 301: Advanced Hebrew I
- HEBREW 302: Advanced Hebrew II
- HISTORY 322 / GERMAN 322: The Origins of Nazism
- HISTORY 368 / AMCULT 342 / WOMENSTD 360: History of the Family in the U.S.
- NEAREAST 200 / RELIGION 201: Introduction to World Religions: Near Eastern
- NEAREAST 201: Madness, Medicine, and Magic in the Middle East
- NEAREAST 235 / RELIGION 121: Introduction to the Tanakh/Old Testament
- NEAREAST 238 / RELIGION 280: The Historical Jesus in Christianity, Judaism, and Islam
- NEAREAST 242 / RELIGION 270: Introduction to Rabbinic Literature

- NEAREAST 326: The Arab-Israeli Conflict in Middle Eastern Literature
- NEAREAST 335 / RELIGION 359: History and Religion of Ancient Judaism
- NEAREAST 339 / RELIGION 358: Israel Before the Exile (587 BCE): Its History & Religion
- NEAREAST 355 / CLARCH 327 / CLCIV 327 / RELIGION 326: Jews in the Roman Mediterranean: Archaeology, Religion, and Culture
- POLSCI 351: Israeli Society and Politics
- POLSCI 353: The Arab-Israeli Conflict
- RELIGION 121 / NEAREAST 235: Introduction to the Tanakh/Old Testament
- RELIGION 201 / NEAREAST 200: Introduction to World Religions: Near Eastern
- RELIGION 270 / NEAREAST 242: Introduction to Rabbinic Literature
- RELIGION 280 / NEAREAST 238: The Historical Jesus in Christianity, Judaism, and Islam
- RELIGION 326 / NEAREAST 355 / CLARCH 327 / CLCIV 327: Jews in the Roman Mediterranean: Archaeology, Religion, and Culture
- RELIGION 358 / NEAREAST 339: Israel Before the Exile (587 BCE): Its History & Religion
- RELIGION 359 / NEAREAST 335: History and Religion of Ancient Judaism
- WOMENSTD 360 / HISTORY 368 / AMCULT 342: History of the Family in the U.S.

#### Constraints

- At least two courses must be taken at the 300 or 400 level (6 credits).
- Students may not use more than one Independent study course as an elective.
- Only advanced Hebrew and Yiddish language courses (300-level and 400-level) may count toward the minor.

#### Residency

At least three of the courses counting toward the minor must be taken at the UM-Ann Arbor campus.

## Yiddish Studies (Minor)

The University of Michigan is an internationally recognized hub of experts in Yiddish studies and a pre-eminent center for Yiddish studies scholarship. The Yiddish Studies minor offers undergraduates a unique opportunity to focus on the study of the Yiddish language and explore its culture from the perspective of a variety of disciplines. Students of Yiddish gain access to entire worlds of Jewish culture that are otherwise obscure, from folk songs and memoirs to literary criticism, mystical literature, and historiography. As a diasporic language that flourished without the aid of a nation state or even homeland, Yiddish

models alternative modes of Jewish cultural production in the medieval and modern eras. Not having its own nation-state borders, Yiddish has been traveling in the mouths of Ashkenazi Jews within and beyond Europe, to the Americas, Israel, Australia, and South Africa. In the 20th century, Yiddish was marginalized as a Jewish language in favor of Hebrew, abandoned as a daily language in favor of local state languages like English, Russian, and Polish, and devastated by the Nazi and Stalinist regimes. And yet the vibrancy of Yiddish culture and literature continues to reverberate throughout the world in diverse forms of cultural production, including music and theater and secular and sacred literatures.

Students interested in particular places, such as Eastern Europe or the Americas, or engaged with international studies, which is explicitly comparative, will find that a minor in Yiddish studies will complement and enrich their understanding of these subjects by encouraging them to view the world from the point of view of a minority community deeply engaged with majority society.

This minor is intended for undergraduates who are captivated by Yiddish language as a window into a unique Jewish world. These students want to study a Jewish language but are not drawn to Hebrew; they prefer to follow a less well-trodden path that illuminates Jewish culture produced in Europe, the Americas, and wherever Ashkenazi immigrants settled. The prerequisite language study is necessary to give students basic competence in reading and speaking, grammar and simple writing assignments. The second year language sequence introduces Yiddish culture along with more advanced grammar as well as speaking that extends beyond simple sentences. It gives students a solid grounding in selected elements of Yiddish literature (poems, songs, short stories, newspaper articles). YIDDISH 201-202 often focuses on a particular theme to give coherence to the items studied.

*Effective Fall 2016*

#### Exclusions:

*A minor in Yiddish Studies is not open to students with a major in Judaic Studies.*

#### Advising

A student who is interested in a major in Judaic Studies should meet with the major advisor as early as possible to plan a coherent course of study. Please email [JudaicStudies@umich.edu](mailto:JudaicStudies@umich.edu) or call 734-615-6097 to schedule an appointment.

#### Prerequisites

Elementary Yiddish [Students must either take YIDDISH 101-102 at U-M or take an intensive summer course elsewhere (there are several that exist; at YIVO in conjunction with Bard College, at the National Yiddish Book Center, at Tel Aviv University, at Oxford University) that will qualify a student to take YIDDISH 201-202.]

#### Requirements

##### Minimum Credits: 15

A minimum of 15 credits, to be chosen from the following categories as stated below, with at least three courses at the 300- level or above:

1. **Core Language:** YIDDISH 201 and 202 (or JUDAIC 201 and 202), Intermediate Yiddish.
2. **Electives:** A minimum of 9 credits selected from the list of approved electives, below.

1. *Language*

- YIDDISH 301 / JUDAIC 301: Advanced Yiddish I
- YIDDISH 302 / JUDAIC 302: Advanced Yiddish II
- JUDAIC 401: Readings in Yiddish Texts, *section titled "Yiddish Culture Between Tradition and Modernity"*

2. *Literature*

- YIDDISH 332 / JUDAIC 332: Yiddish Classics and Modernity
- YIDDISH 433 / JUDAIC 433: Yiddish Classics and Modernity
- JUDAIC 205 / NEAREAST 276: What is Judaism?
- JUDAIC 218: Humanities Topics in Judaism, *sections titled "Jewish American Short Stories", and "Urban Cafes and Modern Jewish Culture"*
- JUDAIC 271 / SLAVIC 270: Contact and Conflict: Jewish Experience in Eastern Europe through Art, Film & Literature
- JUDAIC 281 / NEAREAST 281 / SLAVIC 281: Jews in the Modern World: Texts, Images, Ideas
- JUDAIC 316: Topics in Jewish Literature, *section titled "Jewish Folk Literature"*
- JUDAIC 317: Topics in Judaic Studies: *sections titled "Lost in Transit: Literature of Jewish Mobility", and "Yiddish Classics and Modernity"*
- JUDAIC 318: Humanities Topics in Judaism, *sections titled "Jewish Literature", and "Literature of the Holocaust"*
- JUDAIC 332 / YIDDISH 332: Yiddish Classics and Modernity
- JUDAIC 384 / HISTORY 384: Modern Jewish History 1880-1948
- JUDAIC 386 / HISTORY 386 / GERMAN 391: The Holocaust
- JUDAIC 387 / HISTORY 387 / AMCULT 387: History of American Jews
- JUDAIC 417: Topics in Judaic Studies, *sections titled "Ethnicity in Israel Literature and Culture", "Exile & Homecoming in Hebrew & Jewish Literature", "Literature of the Holocaust", "Shtetl: Image & Reality", and "Yiddish in New York"*
- JUDAIC 433 / YIDDISH 433: Yiddish Classics and Modernity
- JUDAIC 437 / AMCULT 437: Yiddish in New York: The First 150 Years
- JUDAIC 467 / RELIGION 471 / NEAREAST 476: Seminar: Topics in the Study of Judaism, *sections titled "The Thought of Abraham Joshua Heschel", and "Hasidism as Mysticism: Nahman Breslov"*
- JUDAIC 481 / SLAVIC 481: Desire, Destiny, & Death: Jews and Modernism in Eastern / Central Europe
- AMCULT 437 / JUDAIC 437: Yiddish in New York: The First 150 Years
- AMCULT 387 / HISTORY 387 / JUDAIC 387: History of American Jews
- AMCULT 405: Topics in American Culture, *section titled "Yiddish in New York: First 150 Years, 1870-2012"*
- COMPLIT 490: Comparative Cultural Studies, *section titled "Jews and Modernism"*
- ENGLISH 317: Literature and Culture, *section titled "Yiddish Classics and Modernity"*
- ENGLISH 383: Jewish Literature
- ENGLISH 407: Topics in English Language & Literature, *section titled "Literature of the Holocaust"*
- GERMAN 391 / HISTORY 386 / JUDAIC 386: The Holocaust
- HISTORY 384 / JUDAIC 384: Modern Jewish History 1880-1948
- HISTORY 386 / JUDAIC 386 / GERMAN 391: The Holocaust
- HISTORY 387 / JUDAIC 387 / AMCULT 387: History of American Jews
- NEAREAST 276 / JUDAIC 205: What is Judaism?
- NEAREAST 281 / JUDAIC 281 / SLAVIC 281: Jews in the Modern World: Texts, Images, Ideas
- NEAREAST 476 / JUDAIC 467 / RELIGION 471: Seminar: Topics in the Study of Judaism, *sections titled "The Thought of Abraham Joshua Heschel", and "Hasidism as Mysticism: Nahman Breslov"*
- RELIGION 471 / JUDAIC 467 / NEAREAST 476: Seminar: Topics in the Study of Judaism, *sections titled "The Thought of Abraham Joshua Heschel", and "Hasidism as Mysticism: Nahman Breslov"*

- SLAVIC 270 / JUDAIC 271: Contact and Conflict: Jewish Experience in Eastern Europe through Art, Film & Literature
- SLAVIC 281 / JUDAIC 281 / NEAREAST 281: Jews in the Modern World: Texts, Images, Ideas
- SLAVIC 481 / JUDAIC 481: Desire, Destiny, & Death: Jews and Modernism in Eastern / Central Europe

# Center for Latin American and Caribbean Studies

## Latin American and Caribbean Studies (Major)

The Interdepartmental Program of study in a major in Latin American and Caribbean Studies is designed to provide students with a rigorous, multi-disciplinary approach to the study of Latin America and the Caribbean. A broad base of knowledge is established by the requirement of a core of upper-level work in languages, the social sciences, and the humanities. Analytical depth is demonstrated through the completion of a senior thesis under appropriate faculty supervision.

Effective Fall 2016

### Advising

Undergraduate advisors at the International Institute are available to meet with undeclared students who would like to learn more about the program, and also with current majors and minors who would like to discuss course selection, degree requirements, major/minor releases, and other matters of concern. Appointments can be made through our online appointment calendar [here](#). Information on all of our undergraduate programs and Walk-In Advising hours can also be found on our website. The International Institute's Undergraduate Advising Office is currently located at 1080 South University Avenue, Suite 2660.

### Prerequisites

None.

### Requirements

**Minimum Credits:** 30

**LACS Language Requirement for the Major.** Proficiency in Spanish [SPANISH 277 or RCLANG 294 or equivalent] or Portuguese [PORTUG 232 or equivalent] should be achieved as early as possible in the program. Students are encouraged to go beyond this, either with further work in the language chosen, or by achieving competency in the other major language.

Language requirement courses are not included in the minimum 30 credits required for the major nor in the major GPA.

**Required Courses.** Students must include at least one course from each of the following areas of study:

- **Anthropology:**  
ANTHRCUL 319: Latin American Society and Culture,  
ANTHRCUL 414: Introduction to Caribbean Societies and Cultures, I, or an upper-level Anthropology course on Latin America, approved by an advisor.
- **History:**  
HISTORY 347: Latin America: The Colonial Period or HISTORY 348: Latin America: The National Period, or an upper-level HISTORY course on Latin America, approved by an advisor.
- **Literature:**  
SPANISH 381: Survey of Latin American Literature, I, SPANISH 382: Survey of Latin American Literature, II, or an upper-level course in Latin American literature, approved by an advisor.
- **Politics and Economy:**  
SPANISH 438: Economy and Politics in Latin America/Spain, or

an upper-level course in Latin American politics and/or economy, approved by an advisor.

**Note:** courses in this area are usually found in the departments of Political Science, Sociology, and Spanish.

**Elective Courses.** The remainder of the 30 credits may be drawn from courses, from any department, that deal with Latin America and the Caribbean; including up to 4 credits of Quechua or Nahuatl language. Study Abroad coursework may be used toward the major with approval from an advisor.

### Constraints

At least 20 credits must be at the 300-400 level.

### Honors

Application for an Honors major is usually made at the beginning of the third year. Participation requires a 3.5 GPA in all LACS coursework and a 3.4 overall GPA. Graduation with Honors is recommended for students who complete all College and LACS graduation requirements, maintain a 3.5 major GPA, 3.4 overall GPA, and write a substantial LACS Senior Thesis that is judged worthy of Honors designation by the thesis advisor and at least one other faculty reader. An Honors major is not limited to students who have been in the College Honors Program in the first and second years. LACS Honors candidates will enroll in LACS 399 during their thesis writing semester. More details about the Senior Thesis and about applying for LACS Honors may be obtained from the department advisor.

## Latin American and Caribbean Studies (Minor)

The LACS minor is designed to provide students with a multidisciplinary approach to the study of Latin America and the Caribbean. It aims to enhance the student's disciplinary training, received through major in a traditional discipline, by exposing the student to the topics and issues that are raised in the multidisciplinary area studies approach to countries of the Americas.

Effective Fall 2016

### Exclusions:

*A minor in Latin American and Caribbean Studies is not open to students with a major in Latin American and Caribbean Studies.*

### Advising

Undergraduate advisors at the International Institute are available to meet with undeclared students who would like to learn more about the program, and also with current majors and minors who would like to discuss course selection, degree requirements, major/minor releases, and other matters of concern. Appointments can be made through our online appointment calendar [here](#). Information on all of our undergraduate programs and Walk-In Advising hours can also be found on our website. The International Institute's Undergraduate Advising Office is currently located at 1080 South University Avenue, Suite 2660.

Students wishing to pursue a minor in Latin American and Caribbean Studies must develop a specific plan for its completion in consultation with an advisor; including the declaration of one of three tracks:



Health, Medicine and Science, Human Rights, or Latin American and Caribbean Societies.

**Prerequisites**

SPANISH 232 or RCLANG 294, or PORTUG 232, or equivalent.

**Requirements****Minimum Credits: 15**

At least 15 credit of advisor approved courses at the 300-level and above, to be chosen from one of the following tracks:

1. **Health, Medicine, and Science**
  - Two courses (6 credits) directly related to the fields of Health, Medicine and Science that touch on issues in the Latin American and Caribbean region.
  - Three courses (or at least 9 credits) drawn from courses, from any department, that cover Latin America and the Caribbean.
2. **Human Rights**
  - Two courses (6 credits) directly related to the field of Human Rights that touch on issues in the Latin American and Caribbean region.
  - Three courses (or at least 9 credits) drawn from courses, from any department, that cover Latin America and the Caribbean.
3. **Latin American and Caribbean Societies**
  - Two courses (6 credits) that touch on cultural and societal issues in the Latin American and Caribbean region.
  - Three courses (or at least 9 credits) drawn from courses, from that cover Latin America and the Caribbean.

**Constraints**

**Interdisciplinary Requirement.** Courses must be drawn from at least three different departments, with not more than six credits in any one department.

**Study Abroad.** Study Abroad coursework may be used toward the minor with approval from an advisor.

# Linguistics

Linguistics investigates all aspects of spoken and written human language. It is especially concerned with the general principles of language structure, its use and acquisition, with the structure and history of particular languages and groups of languages, with the role of language in human experience, and with the techniques employed in analyzing and describing language. The concentration in Linguistics is intended to provide an understanding of human language and its systematic study, as well as provide the opportunity to explore the importance of language in all areas of human life.

The general field of linguistics includes several subfields. Phonetics and phonology are especially concerned with the sounds of speech. Phonetics emphasizes the physical characteristics of speech sounds, and phonology deals with the way in which speech sounds are organized in languages. Syntax examines the way in which smaller units of language, such as words, are organized into the complex structure of phrases and sentences. Semantics seeks to understand how the forms of language are used to express meaning. Historical and comparative linguistics is concerned with the ways in which languages change through time, with the variations in language from place to place, and with the possible relationship among languages. Historical linguistics also includes the study of the history of specific languages and language groups, and the reconstruction of pre-historic languages.

In addition to these subfields of linguistics, several other sub-disciplines relate linguistics to other fields of study. Psycholinguistics treats language in its psychological aspects and is especially concerned with the ways in which cultural patterns and values relate to language structure, use, and change. Sociolinguistics deals with the interrelationship of language and society and with the covariation of language and social form. Computational linguistics is concerned with the utilization of computational techniques in the analysis of language.

Some areas in which the findings of linguistics have found application include: translation, the design and documentation of computer software, language and national policy, speech pathology and speech therapy, the development of writing systems for previously unwritten languages, the teaching of first language skills such as reading and writing, and the teaching of second languages.

## Linguistics (Major)

Effective Winter 2017

### Advising

Advising appointments can be made [here](#) or by contacting [linguistics@umich.edu](mailto:linguistics@umich.edu)

### Prerequisites

None; LING 111, 209, 210 or 212 are recommended.

### Requirements

**Minimum Credits:** 30

The Linguistics major requires a total of 30 credits at the 300 level or higher, subject to the constraints below.

**Required Core Courses (12 credits).** All majors are required to take the following four courses in the Linguistics Department. The coursework in LING 313, 315, and 316 should be completed as soon as possible, to

ensure that all students gain a solid understanding of Linguistics before electing further courses, especially 497.

1. *LING 313: Sound Patterns.* This course explores two fundamental aspects of the sounds of the world's languages: speech sounds as physical entities (phonetics) and speech sounds as linguistic units (phonology).
2. *LING 315: Introduction to Syntax.* This course examines the rule systems whereby words are organized into phrases and phrases into sentences in natural languages.
3. *LING 316: Aspects of Meaning.* This course introduces students to the study of meaning in language.
4. *LING 497: Capstone Seminar.* This seminar brings previous coursework, particularly the other required courses, to bear on a specific topic that may vary by term. LING 313, 315, and 316 are prerequisites for 497, but may be taken concurrently.

In extraordinary circumstances, with permission of the Director of Undergraduate Studies, an advanced course in the area of phonetics/phonology, semantics, or syntax could satisfy the LING 313, 315, or 316 requirement.

**Electives (18 credits).** Beyond the four core courses, majors are encouraged to fill out their program of 30 total credits, in consultation with a Linguistics advisor, using courses from the categories below.

1. *Regular Linguistics Classroom Courses (at least 6 additional credits).* Majors must complete at least 18 total credits of traditional classroom courses offered by the Department of Linguistics. (The core courses account for 12 of these 18 credits.) Note that cross-listed courses count towards this category whether or not students enroll under the LING number, but meet-together courses only count when registered under the LING number.
2. Any remaining credits (up to 12) may be met using the following flexible categories:
  1. *Independent Study Courses (at most 6 credits).* At most 6 credits of independent study or independent reading courses may count towards the major. For more details, see our [guidelines on independent studies](#).
  2. *Experiential Practice Courses (at most 6 credits).* At most 6 credits of experiential practice courses may count towards the major. (Note that this is calculated separately from the limit on independent studies; a student might theoretically take 6 credits of each.)
  3. *Cognate and Transfer Courses.* Subject to the limits above, approved cognate courses offered by another program or department and/or approved transfer credits from another institution may count towards the major. Each term, the Linguistics Department posts a list of cognates on its website that are pre-approved for the major. Students may also request that courses not on this list (including transfer credit) count towards the major. These

requests must be individually approved by the Director of Undergraduate Studies, who will generally follow [the guidelines linked here](#).

### Other Department Policies

**Double Major.** Because the study of language is quite often interdisciplinary, a major in Linguistics can be designed to integrate very well with other academic fields. As a result, it is very common for Linguistics majors to also major in a second field. An LSA double major requires satisfying all of the requirements for the major of both programs. However, neither LSA nor the Department of Linguistics imposes any limit on "double-counting" courses between majors, allowing students to double-major with substantially fewer than 60 total major credits. (Check with an advisor in the second major, though, to confirm their policy on jointly counted courses.)

### Honors

The Honors major in Linguistics requires completion of the requirements for the major and, in addition, a senior Honors project leading to an Honors thesis. The thesis must be written under the supervision of a faculty member of the Department of Linguistics and with permission of a department advisor. Students may elect LING 495 and 496 when writing the Honors thesis (but are not required to do so). Finally, LSA requires students in an Honors major to maintain a GPA of 3.4 or higher overall (not just in Linguistics).

## Linguistics (Minor)

Many students in departments across campus develop an interest in language as they pursue their studies, and wish to learn more about the ways in which human language informs and defines human experience. Other career aspirations, however, make it difficult for them to have a full concentration in Linguistics. The academic minor in Linguistics is offered to these undergraduates who wish to enrich their education with extended study in the nature of human language. Such inquiry is regularly sought as a support to the study of a specific language and its literature, as an adjunct to other aspects of developmental and cognitive psychology, or as a tool for concentrators in other cognate disciplines.

*Effective Winter 2017*

### Exclusions:

*A minor in Linguistics is not open to students with a major in the Department of Linguistics.*

### Advising

Students wishing to pursue an academic minor in Linguistics must develop a specific plan for its completion in consultation with a faculty member of the Undergraduate Committee of the Linguistics Department.

Advising appointments can be made [online](#) or by contacting [linguistics@umich.edu](mailto:linguistics@umich.edu)

### Prerequisites

None. LING 111, 209, 210, or 212 is recommended.

### Requirements

#### Minimum Credits: 15

15 credits in Linguistics or in courses cross-listed with Linguistics, distributed as follows:

1. **Linguistics core:** Two courses chosen from LING 313, 315, and 316.
2. **Linguistics electives:** Nine credits in Linguistics, at the 300-level or above.

### Constraints

Only 3 credits of independent study and only 3 credits of experiential practice may count towards the minor (calculated separately).

### Residency

At least 10 credits must be taken in-residence, and all courses taken in-residence must be in Linguistics or in courses cross-listed with Linguistics. All out-of-residence courses must be approved by the Director of Undergraduate Studies.

**Definition of in-residence:** Courses elected on the Ann Arbor campus or at off-campus sites directed by Ann Arbor faculty. This includes STDABRD, Camp Davis, Biological Station, Michigan-in-Washington.

# College of Literature, Science, and the Arts

## General Studies (Bachelor in General Studies Degree Program)

In 1968, the faculty of the College of Literature, Science, and the Arts voted to create the Bachelor in General Studies (BGS) degree. This degree remains an option for students with interdisciplinary or alternate academic interests, allowing them to pursue their interests in an individually designed degree program independent of departmental requirements.

The Bachelor in General Studies is an interdisciplinary degree which allows a student to combine subject areas and skills in a way that focuses intellectual development through a lens of interdisciplinarity.

The Bachelor in General Studies, a self-designed interdisciplinary degree, has many requirements in common with the Bachelor of Arts and Bachelor of Science.

### The B.G.S. is unique in that:

- It does not require completion of distribution (Natural Sciences, Social Sciences, Humanities, etc.).
- It does not require completion of second language proficiency.
- It does not require a major.
- It DOES require 60 credits of coursework elected at the 300-level or above.

### Requirements specific to the 60 upper-level credits:

- No more than 20 credit hours of upper-level courses may be counted from a single department. If an academic department has several subjects (e.g., American Culture includes divisions of Arab American Studies, Asian/ Pacific Islander American Studies, Latina/o American Studies, Native American Studies), a B.G.S. student may elect a maximum 20 credit hours of upper-level courses from each subject to complete the minimum 60 credit hours.
- Students may complete more than 20 credit hours in a single division provided that only 20 upper-level credits count toward the 60-credit minimum (e.g., 25 credit hours of upper-level courses may be completed in psychology provided that 65 upper-level credit hours are completed). Thus, the number of lower-level credits need not be half of the 120 total.
- A cross-listed course may count toward any one of the departments regardless of the department noted on the transcript.
- At least 40 of these upper-level credits must be LSA.
- Students may include coursework from as many departments and subjects necessary to meet the 60 credits minimum. Typically B.G.S. students have 7–9 departments or subjects represented in their upper-level coursework. B.G.S. is NOT 20-20-20.

- One course from PitE or Graham Sustainability Supplemental Studies may overlap with the 60 upper-level credits required by B.G.S.
- A B.G.S. student must earn an overall GPA of at least 2.0 in the courses used to meet the requirement of 60 upper-level credits.

## Individualized Major Program (Major)

Since 1969 the Individualized Major Program\* has allowed enterprising LSA students to design their own majors on appropriate topics not currently covered by existing LSA majors or a combination of LSA majors and minors.

Proposing for the Individual Major Program is an involved process that requires students to clearly define and articulate their academic goals. Most students find this to be a very rewarding endeavor, even if their proposals for the program are not approved.

In designing an Individual Major Program, students are required to work closely with the [Program Advisor](#) and faculty members in the College of Literature Science and the Arts to develop a detailed curriculum proposal and statement of intellectual purpose. Before a student may proceed with a proposed major, the [Committee for Interdisciplinary Studies](#) must formally approve the proposal. While proposals are accepted, there is no guarantee that this will be the case with each student. Students must develop an acceptable backup plan to accomplish their educational goals and graduate on time through another program.

\*The Individualized Major Program was formerly titled the Individual Concentration Program.

### Academic Requirements

- Since the Individualized Major Program leads to an A.B. or B.S. degree, students must meet the A.B./B.S. requirements (i.e., first-year writing, upper-level writing, second language, race and ethnicity, quantitative reasoning, and an area distribution plan). NOTE: Students may complete the upper-level writing requirement (ULWR) by electing any course approved for that purpose, but are strongly encouraged to include a ULWR course in their Individualized Major Program if possible.
- An Individualized Major Program must include a minimum of 34 upper-level credits (usually 300- & 400-level courses).
- As part of their proposed curriculum students in the program must complete a Senior Seminar (UC 455, 3 credits) and Senior Project (UC 399/499 1-3 credits). Credits from the seminar and project may be included in the required 34 upper-level credits.

### Additional Policies

- A maximum of 6 non-LSA credits may be used for an Individualized Major Program.

- Students with an Individualized Major Program may elect a double major; however, no course used for an Individualized Major Program may be used as part of the second major. Unlike other majors, the IMP does not "share classes" with another major.
- No course used for an Individualized Major Program may be used in an area distribution plan. Courses used for a second major may also be used for area distribution, but Individualized Major Program courses are always excluded from distribution.
- Courses in departments from which students have 12 or more credits in the core requirements of their Individualized Major Program may not be used for area distribution.
- Like other LSA majors, a maximum of one course may be used for both an Individualized Major Program and a minor.
- At the time of proposal submission, no more than half the courses for the proposed major (17 credits) can be completed and/or currently elected.
- Generally, proposals are not accepted after the first term of a student's junior year.

# Mathematics

Mathematics is the language and tool of the sciences, a cultural phenomenon with a rich historical tradition, and a model of abstract reasoning. Historically, mathematical methods and thinking have been extraordinarily successful in physics and engineering. Today, they are used successfully in many new areas, from computer science to biology and finance.

The study of mathematics is an excellent preparation for many careers; the patterns of careful logical reasoning and analytical problem solving essential to mathematics are also applicable in contexts where quantity and measurement play only minor roles. Thus students of mathematics may go on to excel in medicine, law, politics, or business as well as any of a vast range of scientific careers. Special programs are offered for those interested in teaching mathematics, in actuarial mathematics, the mathematics of insurance, or financial mathematics. The other programs split between those which emphasize mathematics as an independent discipline and those which favor the application of mathematical tools to problems in other fields. There is considerable overlap here, and any of these programs may serve as preparation for either further study in a variety of academic disciplines, including mathematics itself, or intellectually challenging careers in a wide variety of corporate and governmental settings.

## Actuarial Mathematics (Sub-Major)

The **Actuarial Mathematics** Program is designed to provide broad training in the basic mathematics underlying the operations of private and social insurance and employee benefit plans. The courses are organized to assist the student to prepare for several of the examinations of the Casualty Actuarial Society and the Society of Actuaries. Non-credit review classes for some of the professional actuarial examinations are organized each term; ask your actuarial advisor about the time and place of these classes. It is strongly recommended that some of these exams be passed before graduation. Summer internships are an important component of the educational program and students are strongly encouraged to seek an internship no later than the conclusion of their junior year. Students are encouraged to take either MATH 422 or 427 to satisfy their [upper-level writing requirement](#).

*Effective Fall 2017*

### Advising

Appointments are scheduled online at: [www.math.lsa.umich.edu/undergrad/](http://www.math.lsa.umich.edu/undergrad/). Students are strongly urged to consult with a department advisor each term before selecting courses for the following term.

### Grade Policies

All prerequisite courses must be satisfied with a grade of C– or above. Students with lower grades in prerequisite courses must receive special permission of the instructor to enroll in subsequent courses.

For purposes of calculating grade point average, the term "field of the major" means the following:

1. All MATH courses.
2. All courses used to meet requirements for the major.
3. All required cognate courses (if any).
4. All mandatory prerequisites.
5. EECS 183
6. ECON 101 and ECON 102 (actuarial mathematics submajor only).

### Prerequisites

#### Prerequisites for all Mathematics Majors

Completion of one of the sequences ending with MATH 215-217, 256-217, 285-217, or 395-396. A working knowledge of a high-level computer language such as C++ or a computer algebra system (such as Maple or Mathematica), at a level equivalent to completion of a course of three or more credits, and eight credits of PHYSICS, preferably PHYSICS 140/141 and 240/241, are recommended for all programs and required for some. (A grade of C- or better is strongly suggested for MATH 217.)

#### Additional prerequisites for the Actuarial Mathematics Submajor

MATH 215&217, 255&217, 285&217 or MATH 295&296. Each student must also complete: ECON 101 and 102 and EECS 183 all elected on a graded basis. The grade for ECON 101, ECON 102, and EECS 183 will be included in the major GPA.

### Requirements

A minimum of 11 courses, selected from the following:

1. **Four basic courses** (one from each of the following four groups), completed with a grade of at least C-:
  - *Differential Equations*: MATH 286 or 316
  - *Probability*: MATH 425
  - *Statistics*: STATS 426
  - *Finance*: MATH 423
2. **Five special courses for Actuarial Mathematics**: MATH 424, MATH 520 and 521 (or 522), and MATH 523 and 524.
3. **Two additional courses** in areas relating to Actuarial approved by an advisor.

### Residency

Minimum number **of courses taken in residence for transfer students majoring in Mathematics** (applies to all sub-plans): Students should take a minimum of 18 credits at the University of Michigan, Ann Arbor campus. Six of these credits must come from the basic courses and nine from the core courses and/or cognate courses. The 18 credits may include prerequisites taken in Math.

## Honors Mathematics (Sub-Major)

Outstanding students may elect an Honors major in Mathematics. The Honors Program is designed not only for students who expect to become mathematicians but also for students whose ultimate professional goal lies elsewhere (e.g., in the humanities, law, ...).

Effective Fall 2012

### Grade Policies

All prerequisite courses must be satisfied with a grade of C– or above. Students with lower grades in prerequisite courses must receive special permission of the instructor to enroll in subsequent courses.

For purposes of calculating grade point average, the term "field of the major" means the following:

1. All MATH courses.
2. All courses used to meet requirements for the major.
3. All required cognate courses (if any).
4. All mandatory prerequisites.
5. EECS 183

### Prerequisites

#### Prerequisites for all Mathematics Majors

Completion of one of the sequences ending with MATH 215-217, 256-217, 285-217, or 395-396. A working knowledge of a high-level computer language such as C++ or a computer algebra system (such as Maple or Mathematica), at a level equivalent to completion of a course of three or more credits, and eight credits of PHYSICS, preferably PHYSICS 140/141 and 240/241, are recommended for all programs and required for some. (A grade of C- or better is strongly suggested for MATH 217.)

#### Additional prerequisites for the Honors Mathematics Submajor

Completion of one of the sequences ending with MATH 215-217, 256-217, 285-217, or 395-396. (A grade of C- or better is strongly suggested for MATH 217.)

Students intending an Honors major are strongly advised to take one of the Honors introductory sequences MATH 156-256, 175-286, 185-286, or 295-396, or some combination of these four. The sequence MATH 295-396 is very theoretical. Eight credits of PHYSICS and familiarity with a high-level computer language are strongly recommended.

### Requirements

The Honors major program must include at least nine courses: (A) four basic courses, (B) four elective courses, and (C) one cognate course as described below.

1. The basic courses consist of one from each of groups 1, 2, 3, and 4 or groups 1, 2, 5, 6 below, completed with a grade of at least C-:
  1. Linear Algebra: MATH 420 or 513
  2. Analysis: MATH 451
  3. Modern Algebra: MATH 493
  4. Geometry/Topology: MATH 433, 490, or 590
  5. Probability: MATH 525

6. Differential Equations: MATH 404, 454, 556, 557, or 558

Students who complete MATH 295&296, with a grade of at least a C- are exempt from MATH 451. Students who complete MATH 295-395, with a grade of at least a C- are exempt from MATH 420.

2. The four elective courses must be chosen in consultation with an Honors advisor to provide a cohesive program which explores an area of mathematics in some depth. There is a good deal of freedom allowed here, but a random selection of courses will not satisfy this requirement. The courses should be chosen from the approved list or have a course number 600 or above. MATH 289 is a repeatable 1-credit course and can be used to satisfy the elective requirement only if taken for a total of 3 credits. A Mathematics Honors advisor may approve another mathematics course or a course from another department with advanced mathematical content as one of these elective courses. The Mathematics Honors advisor may ask that the student arrange supplemental work in a given class conform to expectations for an Honors elective. A student electing to satisfy requirement A by choosing courses from groups 1, 2, 5, and 6 must complete a course in Complex Analysis (MATH 555 or 596) as one of his/her electives.
3. One cognate course from outside the Mathematics department, but containing significant mathematical content, chosen with the approval of the Honors advisor.

Students who, in the judgment of the Departmental Honors Committee, have completed an Honors major with distinction are granted a citation upon graduating. Interested students should discuss their program and the specific requirements for obtaining the citation with a Mathematics Honors advisor (appointments scheduled at: [www.math.lsa.umich.edu/undergrad/](http://www.math.lsa.umich.edu/undergrad/)) no later than the second term of their sophomore year.

### Residency

Minimum number of courses taken in residence for transfer students **majoring in Mathematics** (applies to all sub-plans): Students should take a minimum of 18 credits at the University of Michigan, Ann Arbor campus. Six of these credits must come from the basic courses and nine from the core courses and/or cognate courses. The 18 credits may include pre-requisites taken in Math.

## Mathematical Sciences (Sub-Major)

The Mathematical Sciences Program is designed to provide broad training in basic mathematics together with some specialization in an area of application of mathematics.

Effective Winter 2015

### Advising

Appointments are scheduled online at: [www.math.lsa.umich.edu/undergrad/](http://www.math.lsa.umich.edu/undergrad/). Students are strongly urged to consult with a department advisor each term before selecting courses for the following term.

### Grade Policies

All prerequisite courses must be satisfied with a grade of C– or above. Students with lower grades in prerequisite courses must receive special permission of the instructor to enroll in subsequent courses.

For purposes of calculating grade point average, the term "field of the major" means the following:

1. All MATH courses.
2. All courses used to meet requirements for the major.
3. All required cognate courses (if any).
4. All mandatory prerequisites.
5. EECS 183

### Prerequisites

#### Prerequisites for all Mathematics Majors

Completion of one of the sequences ending with MATH 215-217, 256-217, 285-217, or 395-396. A working knowledge of a high-level computer language such as C++ or a computer algebra system (such as Maple or Mathematica), at a level equivalent to completion of a course of three or more credits, and eight credits of PHYSICS, preferably PHYSICS 140/141 and 240/241, are recommended for all programs and required for some. (A grade of C- or better is strongly suggested for MATH 217.)

#### Additional prerequisites for the Mathematical Sciences Submajor

Completion of one of the sequences ending with MATH 215&217, 256&217, 285&217, or 295&296. Students who have completed one of the sequences 255&256 or 285&286 may substitute MATH 513 for MATH 217. In addition, students must acquire a working knowledge of a high-level computer language (e.g., Fortran, C, or C++) at a level equivalent to the completion of EECS 183; and Introductory Biology sequence (BIOLOGY 171-172). For those not pursuing either a Physics major or minor, PHYSICS 140/141 and 240/241 are required for the Numerical and Mathematical Physics options and strongly recommended for the other options. Some of the options have additional requirements as noted below.

### Requirements

Each student must select one of the eight Program Options as a special area.

1. Four basic courses (one course from each of the following four groups), completed with a grade of at least C-:
  - Differential Equations: MATH 256, 286, or 316
  - Discrete Math/Modern Algebra: MATH 312, 412, 465, or 493
  - Analysis: MATH 351, 354, 450, 451, or 454
  - Probability: MATH 425 or 525
2. At least three courses from ONE of the Program Options listed below (the list of possible electives for each option is given on the departmental website: [www.math.lsa.umich.edu/undergrad/](http://www.math.lsa.umich.edu/undergrad/)):
  - Discrete and Algorithmic Methods
  - Numerical and Applied Analysis
  - Operations Research and Modeling
  - Probabilistic Methods

- Mathematical Economics
- Control Systems
- Mathematical Physics
- Mathematical Biology

3. Two additional advanced mathematics (or related) courses, approved by a department advisor
4. At least two of the courses in b and c must be MATH courses.

### Residency

Minimum number of courses taken in residence for transfer students majoring in Mathematics (applies to all sub-plans): Students should take a minimum of 18 credits at the University of Michigan, Ann Arbor campus. Six of these credits must come from the basic courses and nine from the core courses and/or cognate courses. The 18 credits may include pre-requisites taken in Math.

## Mathematics (Major)

A Mathematics major provides a broad education in various areas of mathematics in a program flexible enough to accommodate a wide range of interests.

*Effective Winter 2014*

### Advising

Appointments are scheduled online at: [www.math.lsa.umich.edu/undergrad/](http://www.math.lsa.umich.edu/undergrad/). Students are strongly urged to consult with a department advisor each term before selecting courses for the following term.

### Grade Policies

All prerequisite courses must be satisfied with a grade of C– or above. Students with lower grades in prerequisite courses must receive special permission of the instructor to enroll in subsequent courses.

### Major GPA Calculation

For purposes of calculating grade point average, the term "field of the major" means the following:

1. All MATH courses.
2. All courses used to meet requirements for the major.
3. All required cognate courses (if any).
4. All mandatory prerequisites.
5. EECS 183
6. ECON 101 and ECON 102 (actuarial mathematics submajor only).

### Prerequisites

Most programs require completion of one of the sequences ending with MATH 215-217, 256-217, 285-217, or 395-396. A working knowledge of a high-level computer language such as C++ or a computer algebra system (such as Maple or Mathematica), at a level equivalent to completion of a course of three or more credits, and eight credits of PHYSICS, preferably PHYSICS 140/141 and 240/241, are recommended for all programs and required for some. (A grade of C- or better is strongly suggested for MATH 217.)

### Requirements



A student considering a major in Mathematics should consult a mathematics department advisor in the Undergraduate Mathematics Office as early as possible and certainly by the first term of the sophomore year. The department offers many different submajors with varying requirements; failure to meet some of these at the intended time may delay completion of the program and graduation. A plan for the major must be designed with and approved by a department advisor.

- [Pure Mathematics](#)
- [Mathematical Sciences](#)
- [Actuarial Mathematics](#)
- [Mathematics of Finance and Risk Management](#)
- [Honors Mathematics](#)
- [Secondary Mathematics Teaching Certificate](#)

### Residency

**Minimum number of courses taken in residence for transfer students majoring in Mathematics** (applies to all sub-plans) Students should take a minimum of 18 credits at the University of Michigan, Ann Arbor campus. Six of these credits must come from the basic courses and nine from the core courses and/or cognate courses. The 18 credits may include pre-requisites taken in Math.

## Mathematics (Minor)

The minor in Mathematics is designed to enable a student with a significant interest in Mathematics to deepen his/her knowledge while pursuing a major in another field. While the major will often be in a field that makes significant use of mathematics, such as a science or a quantitative social science, it may be in any area of study.

*Effective Winter 2014*

### Exclusions:

*An academic minor in Mathematics is not open to students with any major in Mathematics. However, a student who graduated with an academic minor in Mathematics may return to complete a major in Mathematics. The additional course work used to satisfy the requirements of the major must include 12 in residence, upper-level credit hours.*

### Advising

Students wishing to pursue a minor in Mathematics must develop a specific plan for its completion in consultation with an advisor. Appointments are scheduled [on-line](#)

Students are strongly urged to consult with a department advisor each term before selecting courses for the following term.

### Grade Policies

All courses for the minor program, including prerequisites, must be completed with a grade of at least a C-. Students with lower grades in prerequisite courses must receive special permission of the instructor to enroll in subsequent courses.

### Prerequisites

One of the sequences MATH 115&116, 175&176, 185&186, or 295&296; or MATH 156. These all provide a thorough grounding in the calculus of functions of one variable.

Advanced Placement credits in MATH 120 and 121 also meet the prerequisite requirement.

### Requirements

#### Minimum Credits: 15

15-18 credits of courses, including either two courses from category A and three courses from category B, or one course from category A and four courses from category B. No more than one course may be elected from each of the three areas of category A. The courses in category B must be selected from exactly two of the six listed areas. A student planning to take linear algebra and differential equations should note that not all of MATH 215, 216, and 217 will count toward the minor, whereas all of MATH 215, 217, and 316 will.

#### Category A: Second-year courses:

- *Multivariable Calculus*: MATH 215, 255, or 285
- *Linear Algebra*: MATH 214, 217, 417, or 419
- *Differential Equations*: MATH 216, 256, or 286

#### Category B: Upper-level courses:

- *Analysis/Differential Equations*: MATH 316, 351, 354, 404, 450, 451, 452, 454, 555
- *Algebra/Number Theory*: MATH 312, 389, 412, 420, 471, 475, 493, 513, 561, 575
- *Geometry/Topology*: MATH 433, 490, 531
- *Applied Mathematics*: MATH 354, 371, 404, 423, 425, 450, 454, 462, 463, 471, 472, 550, 561, 563
- *Discrete Mathematics*: MATH 310, 312, 389, 412, 416, 425, 465, 475, 481, 493, 561, 566, 567, 582
- *Financial/Actuarial Mathematics*: MATH 423, 424, 520, 523, 524

## Mathematics of Finance and Risk Management (Sub-Major)

The program in **Mathematics of Finance and Risk Management** (or **Financial Mathematics** for short) is designed to provide a broad education in the quantitative aspects of risk management and finance. Financial instruments which are engineered today require sophisticated mathematical techniques for their valuation. These techniques come from the fields of probability, statistics and differential equations.

*Effective Fall 2017*

### Advising

Appointments are scheduled online at: [www.math.lsa.umich.edu/undergrad/](http://www.math.lsa.umich.edu/undergrad/). Students are strongly urged to consult with a department advisor each term before selecting courses for the following term.

### Grade Policies

All prerequisite courses must be satisfied with a grade of C- or above. Students with lower grades in prerequisite courses must receive special permission of the instructor to enroll in subsequent courses.

For purposes of calculating grade point average, the term "field of the major" means the following:

1. All MATH courses.
2. All courses used to meet requirements for the major.
3. All required cognate courses (if any).
4. All mandatory prerequisites.
5. EECS 183

#### Prerequisites

##### Prerequisites for all Mathematics Majors

Completion of one of the sequences ending with MATH 215-217, 256-217, 285-217, or 395-396. A working knowledge of a high-level computer language such as C++ or a computer algebra system (such as Maple or Mathematica), at a level equivalent to completion of a course of three or more credits, and eight credits of PHYSICS, preferably PHYSICS 140/141 and 240/241, are recommended for all programs and required for some. (A grade of C- or better is strongly suggested for MATH 217.)

##### Additional prerequisites for the Mathematics of Finance and Risk Management Submajor

MATH 215&217, 255&217, 285&217 or MATH 295&296. Each student must also complete: ECON 101 and 102 and EECS 183 all elected on a graded basis. The grade for ECON 101, ECON 102, and EECS 183 will be included in the major GPA.

#### Requirements

1. **Four basic courses** (one from each of the following four groups), completed with a grade of at least C-:
  1. *Differential Equations*: MATH 286 or 316
  2. *Probability*: MATH 425
  3. *Statistics*: STATS 426
  4. *Finance*: MATH 423
2. **Four special courses for Financial Mathematics**: MATH 451, MATH 472 (or 471), MATH 525, MATH 526.
3. Two additional courses in areas relating to Financial Mathematics approved by an advisor.

#### Residency

Minimum number **of courses taken in residence for transfer students majoring in Mathematics** (applies to all sub-plans): Students should take a minimum of 18 credits at the University of Michigan, Ann Arbor campus. Six of these credits must come from the basic courses and nine from the core courses and/or cognate courses. The 18 credits may include pre-requisites taken in Math.

## Pure Mathematics (Sub-Major)

The Pure Mathematics Program is designed to provide broad training in basic modern mathematics including an introduction to the methods of rigorous mathematical proof and exposure to the major areas: Algebra, Analysis, and Geometry/Topology.

*Effective Fall 2011*

#### Advising

Appointments are scheduled online

at: [www.math.lsa.umich.edu/undergrad/](http://www.math.lsa.umich.edu/undergrad/). Students are strongly urged to consult with a department advisor each term before selecting courses for the following term.

#### Grade Policies

All prerequisite courses must be satisfied with a grade of C- or above. Students with lower grades in prerequisite courses must receive special permission of the instructor to enroll in subsequent courses.

For purposes of calculating grade point average, the term "field of the major" means the following:

1. All MATH courses.
2. All courses used to meet requirements for the major.
3. All required cognate courses (if any).
4. All mandatory prerequisites.
5. EECS 183

#### Prerequisites

##### Prerequisites for all Mathematics Majors

Completion of one of the sequences ending with MATH 215-217, 256-217, 285-217, or 395-396. A working knowledge of a high-level computer language such as C++ or a computer algebra system (such as Maple or Mathematica), at a level equivalent to completion of a course of three or more credits, and eight credits of PHYSICS, preferably PHYSICS 140/141 and 240/241, are recommended for all programs and required for some. (A grade of C- or better is strongly suggested for MATH 217.)

##### Additional prerequisites for the Pure Mathematics Submajor

Completion of one of the sequences ending with MATH 215-217, 256-217, 285-217, or 395-396. (A grade of C- or better is strongly suggested for MATH 217.)

All Pure Mathematics majors are also strongly encouraged to take PHYSICS 140-141 and 240-241 and to acquire a working knowledge of a high-level computer language (e.g., Fortran, C, or C++) at a level equivalent to the completion of EECS 183.

#### Requirements

1. **Four basic courses** (one course from each of the following four groups), completed with a grade of at least C-:
  - Modern Algebra: MATH 412 or 493
  - Differential Equations: MATH 256, 286, or 316
  - Analysis: MATH 351 or 451
  - Geometry/Topology: MATH 433, 490, or 590
2. **Four elective courses** (mathematics) chosen from a list of approved electives and approved by a department advisor.
3. **One cognate course** outside the Mathematics Department, but with advanced mathematical content.

#### Residency

Minimum number **of courses taken in residence for transfer students majoring in Mathematics** (applies to all sub-plans): Students should take a minimum of 18 credits at the University of Michigan, Ann Arbor campus. Six of these credits must come from the basic courses and nine

from the core courses and/or cognate courses. The 18 credits may include pre-requisites taken in Math.

## Secondary Mathematics Teaching Certificate (Sub-Major)

The Teaching Certificate program is designed to provide the broad training in mathematics necessary to be a successful teacher of mathematics at the secondary level, grades 6-12. The requirements for a secondary teaching certificate with a major in mathematics may be met while earning a degree from the College of Literature, Science, and the Arts (A.B. or B.S.) or from the School Education (A.B. Ed. or B.S. Ed.). Requirements for the major are identical for all of these degrees, although LSA and Education have somewhat differing language and distribution requirements. LSA degree candidates must earn at least 100 LSA credits and at least 30 Education credits. Please note that the LSA B.S. degree requires 60 credits in physical and natural science and mathematics; students with less than 60 credits may be eligible for an A.B. degree.

Appointments with the Mathematics Department teaching certificate advisor may be scheduled online at: [www.math.lsa.umich.edu/undergrad](http://www.math.lsa.umich.edu/undergrad).

For information specific to the School of Education, students should contact the SOE Teacher Education Office, 1228 SEB, 734-615-1528, [te.program@umich.edu](mailto:te.program@umich.edu), [www.soe.umich.edu/academics](http://www.soe.umich.edu/academics). It is essential that students planning to obtain a teaching certificate consult a teaching certificate advisor, either in Mathematics or Education, prior to the end of the 1st term of their sophomore year.

Effective Fall 2016

### Advising

Appointments are scheduled online at: [www.math.lsa.umich.edu/undergrad/](http://www.math.lsa.umich.edu/undergrad/). Students are strongly urged to consult with a department advisor each term before selecting courses for the following term.

### Grade Policies

All prerequisite courses must be satisfied with a grade of C– or above. Students with lower grades in prerequisite courses must receive special permission of the instructor to enroll in subsequent courses.

For purposes of calculating grade point average, the term "field of the major" means the following:

1. All MATH courses.
2. All courses used to meet requirements for the major.
3. All required cognate courses (if any).
4. All mandatory prerequisites.
5. EECS 183

### Prerequisites

#### Prerequisites for all Mathematics Majors

Completion of one of the sequences ending with MATH 215-217, 256-217, 285-217, or 395-396. A working knowledge of a high-level computer language such as C++ or a computer algebra system (such as Maple or Mathematica), at a level equivalent to completion of a course of three or more credits, and eight credits of PHYSICS, preferably PHYSICS 140/141 and 240/241, are recommended for all programs and

required for some. (A grade of C- or better is strongly suggested for MATH 217.)

#### Additional prerequisites for the Secondary Mathematics Teaching Certificate Submajor

One of the pair of courses MATH 215&217, MATH 255&217, MATH 285&217, or MATH 295&296. Additionally, students must complete one term of computer programming, EECS 183 or equivalent.

#### Requirements

Every candidate for a teaching certificate must take one course from each of the following five groups (chosen with the approval of a teaching certificate advisor) and completed with a grade of at least a C-:

1. Modern Algebra/Number Theory: MATH 487 or 475
2. Geometry: MATH 431 or 531
3. Probability: MATH 425 or 525
4. Analysis: MATH 351 or 451
5. Secondary Mathematics: MATH 486

The program requires ten specific Education courses, listed below, totaling 30 credits. These are elected in the junior and senior years in a specified order. Consult with the School of Education for the order and timing of these courses.

- [Methods of Teaching Mathematics \(or minor field\)](#): EDUC 413 (3 credits)
- [Practicum in Teaching Methods](#): EDUC 307I and 307II (4 credits)
- [Educational Psychology](#): EDUC 391 (3 credits)
- [Reading and Writing](#): EDUC 402 (3 credits)
- [Education in a Multi-cultural Society](#): EDUC 392 (3 credits)
- [Directed Teaching](#): EDUC 302 (10 credits)
- [Problems and Principles of Secondary Education](#): EDUC 304 (2 credits)
- [Teaching with Digital Technologies 6-12](#): EDUC 446 (1 credit)
- [Teaching Students with Exceptionalities in the General Education Middle and High School Classroom](#): EDUC 445 (1 credit)

The last four of these are to be elected concurrently. **Students must apply for admission to the certification program by January 15 of their sophomore year.** Application forms are available at the School of Education.

Additionally, every student must successfully complete:

- an introductory course in psychology (not PSYCH 112) that is to be taken before EDUC 391, and
- Michigan's licensure requirements (see [www.soe.umich.edu/licensure\\_in\\_michigan/](http://www.soe.umich.edu/licensure_in_michigan/)).

Every Teaching Certificate student must present a SOE major or SOE minor in another academic field. This normally requires 20-24 credits in a structured program in an area other than mathematics. Consult the *Bulletin* of the School of Education for acceptable programs.

**Residency**

Minimum number **of courses taken in residence for transfer students majoring in Mathematics** (applies to all sub-plans) *Effective Fall 2015*: Students should take a minimum of 18 credits at the University of Michigan, Ann Arbor campus. Six of these credits must come from the basic courses and nine from the core courses and/or cognate courses. The 18 credits may include pre-requisites taken in Math.

# Center for Middle Eastern and North African Studies

## Islamic Studies (Minor)

The Islamic Studies Program (ISP) offers an interdisciplinary academic minor to students who wish

1. to better understand the history and culture of the Islamic religion and Muslim societies and
2. to gain insight into the political, economic, and social transitions taking place in this field.

This is the only academic program at U-M whose focus is solely on Islam. The focus of this academic minor is not restricted to a single world region and does not have any prerequisites.

*Effective Winter 2016*

### Advising

Undergraduate advisors at the International Institute are available to meet with undeclared students who would like to learn more about the program, and also with current majors and minors who would like to discuss course selection, degree requirements, major/minor releases, and other matters of concern. Appointments can be made through our online appointment calendar [here](#). Information on all of our undergraduate programs and Walk-In Advising hours can also be found on our website. The International Institute's Undergraduate Advising Office is currently located at 1080 South University Avenue, Suite 2660.

### Prerequisites

None.

### Requirements

#### Minimum Credits: 16

At least 16 credits, selected in consultation with and approved by the ISP undergraduate academic advisor, from the following.

1. NEAREAST 216: Introduction to Islam
2. Four additional courses on Islam or on Muslim societies  
—At least two courses which must be 300-level or above  
  
—At least two 3-credit courses covering two of the following regions:  
  
Central Asia  
East and Southeast Asia  
Europe and the Americas  
South Asia  
Middle East and North Africa  
Sub-Saharan Africa

#### General Islamic Studies: without specific regional focus

- HISTORY 243 / MENAS 243: Islamic World History
- HISTORY 428 / NEAREAST 413: The Rise of Islam
- HISTORY 429 / NEAREAST 432 / RELIGION 496 / WOMENSTD 471: Gender & Sexuality in Pre-Modern Islam

- HISTORY 487 / NEAREAST 422 / RELIGION 467: Shi'ism: The History of Messianism and the Pursuit of Justice in Islamdom
- HISTART 285 / NEAREAST 285: Islamic Visual Culture
- MENAS 243 / HISTORY 243: Islamic World History
- MUSICOL 343: Music and Islam
- NEAREAST 216 / RELIGION 204: Introduction to Islam
- NEAREAST 285 / HISTART 285: Islamic Visual Culture
- NEAREAST 321: Jihad in History
- NEAREAST 322 / RELIGION 363: The Qur'an and Its Interpretations
- NEAREAST 323: The Prophet Muhammad in Islam
- NEAREAST 413 / HISTORY 428: The Rise of Islam
- NEAREAST 421 / RELIGION 465: Islamic Mysticism
- NEAREAST 422 RELIGION 467: Shi'ism: The History of Messianism and the Pursuit of Justice in Islamdom
- NEAREAST 423: Islamic Law
- NEAREAST 424: Islamic Intellectual History
- NEAREAST 432 / HISTORY 429 / RELIGION 496 / WOMENSTD 471: Gender & Sexuality in Pre-Modern Islam
- NEAREAST 520: Readings in Classical Islamic Texts
- REEES 490 / SOC 490 / WOMENSTD 492: Women & Islam
- RELIGION 204 / NEAREAST 216: Introduction to Islam
- RELIGION 363 / NEAREAST 322: The Qur'an and Its Interpretations
- RELIGION 465 / NEAREAST 421: Islamic Mysticism
- RELIGION 467 / NEAREAST 422 / HISTORY 487: Shi'ism: The History of Messianism and the Pursuit of Justice in Islamdom
- RELIGION 496 / NEAREAST 432 / HISTORY 429 / WOMENSTD 471: Gender & Sexuality in Pre-Modern Islam
- SOC 490 / REEES 490 / WOMENSTD 492: Women & Islam
- WOMENSTD 471 / NEAREAST 432 / HISTORY 429 / RELIGION 496: Gender & Sexuality in Pre-Modern Islam
- WOMENSTD 492 / SOC 490 / REEES 490: Women & Islam

#### Middle East & North Africa

- AMCULT 368 / ARABAM 363 / NEAREAST 378 / WOMENSTD 368: Women and War in the Middle East
- ARABAM 363 / NEAREAST 378 / AMCULT 368 / WOMENSTD 368: Women and War in the Middle East
- ANTHRCUL 409: Peoples and Cultures of the Near East & North Africa
- GTBOOKS 296 / NEAREAST 219: Great Books of the Middle East
- HISTORY 290 / NEAREAST 287 / JUDAIC 290: Jews and Muslims
- HISTORY 306 / NEAREAST 319: History of the Ottoman Empire: The "Classical Age", (ca. 1300-1600)
- HISTORY 335: The Ottoman Enterprise
- HISTORY 442 / NEAREAST 417: The First Millennium of the Islamic Near East
- HISTORY 443 / NEAREAST 487: Modern Middle Eastern History
- JUDAIC 290 / NEAREAST 287 / HISTORY 290: Jews and Muslims
- NEAREAST 287 / HISTORY 290 / JUDAIC 290: Jews and Muslims
- NEAREAST 219 / GTBOOKS 296: Great Books of the Middle East
- NEAREAST 315: Introduction to Arab Culture: Race, Ethnicity and Gender Issues
- NEAREAST 317: Turkey: Language, Culture, Society between East and West
- NEAREAST 319 / HISTORY 306: History of the Ottoman Empire: The "Classical Age", (ca. 1300-1600)
- NEAREAST 320 / HISTORY 307: History of the Ottoman Empire: The "Post-Classical Age", (ca. 1600-1922)
- NEAREAST 325: Introduction to Arabic Literature in Translation
- NEAREAST 378 / AMCULT 368 / WOMENSTD 368 / ARABAM 363: Women and War in the Middle East
- NEAREAST 416: Ottoman Turkish Culture
- NEAREAST 417 / HISTORY 442: The First Millennium of the Islamic Near East
- NEAREAST 487 / HISTORY 443: Modern Middle Eastern History
- WOMENSTD 368 / NEAREAST 378 / ARABAM 363 / AMCULT 368: Women and War in the Middle East

#### Sub-Saharan Africa

Topics courses as approved by the ISP advisor

#### South Asia

- ASIAN 324 / HISTORY 325 / MEMS 325 / NEAREAST 375 / RELIGION 325: The History of Islam in South Asia
- HISTORY 325 / NEAREAST 375 / MEMS 325 / ASIAN 324 / RELIGION 325: The History of Islam in South Asia
- NEAREAST 375 / HISTORY 325 / ASIAN 324 / RELIGION 325 / MEMS 325: The History of Islam in South Asia
- MEMS 325 / NEAREAST 375 / HISTORY 325 / ASIAN 324 / RELIGION 325: The History of Islam in South Asia
- RELIGION 325 / HISTORY 325 / MEMS 325 / NEAREAST 375 / ASIAN 324: The History of Islam in South Asia

#### East and Southeast Asia

- ASIAN 464 / HISTORY 470 / RELIGION 464: From Mystic Saints to Holy Warriors: Islam in Southeast Asia
- HISTORY 470 / ASIAN 464 / RELIGION 464: From Mystic Saints to Holy Warriors: Islam in Southeast Asia
- RELIGION 464 / ASIAN 464 / HISTORY 470: From Mystic Saints to Holy Warriors: Islam in Southeast Asia

#### Central Asia

- ASIAN 340 / HISTORY 340 / NEAREAST 340 / MENAS 340 / REEES 340: From Genghis Khan to the Taliban: Modern Central Asia
- HISTORY 340 / NEAREAST 340 / ASIAN 340 / MENAS 340 / REEES 340: From Genghis Khan to the Taliban: Modern Central Asia
- MENAS 340 / HISTORY 340 / NEAREAST 340 / ASIAN 340 / REEES 340: From Genghis Khan to the Taliban: Modern Central Asia
- NEAREAST 340 / HISTORY 340 / ASIAN 340 / MENAS 340 / REEES 340: From Genghis Khan to the Taliban: Modern Central Asia
- REEES 340 / HISTORY 340 / NEAREAST 340 / ASIAN 340 / MENAS 340: From Genghis Khan to the Taliban: Modern Central Asia
- RUSSIAN 358: Central Asia through Russian Eyes: Cultural Appropriation of an Exotic Land

#### Europe & the Americas

- AMCULT 215 / ARABAM 215 / NEAREAST 275: Introduction to Arab-American Studies
- AMCULT 235 / ARABAM 235 / WOMENSTD 235: From Harems to Terrorists: Representing the Middle East in Hollywood Cinema
- AMCULT 236 / ARABAM 236: Muslims in America
- ARABAM 215 / AMCULT 215 / NEAREAST 275: Introduction to Arab-American Studies

- ARABAM 235 / AMCULT 235 / WOMENSTD 235: From Harems to Terrorists: Representing the Middle East in Hollywood Cinema
- ARABAM 236 / AMCULT 236: Muslims in America
- HISTORY 324: Muslims and Contemporary Europe
- NEAREAST 275 / AMCULT 215 / ARABAM 215: Introduction to Arab-American Studies
- WOMENSTD 235 / AMCULT 235: From Harems to Terrorists: Representing the Middle East in Hollywood Cinema

### Constraints

Language courses may not be counted toward the minor.

### Residency

At least twelve of the sixteen required credits for the minor must be elected at the University of Michigan or at an overseas program associated with U-M.

## Middle Eastern and North African Studies (Major)

The Center for Middle Eastern and North African Studies offers a multidisciplinary area major program to students who want to obtain a broad background on the modern Middle East and North Africa.

*Effective Fall 2016*

### Exclusions:

*Not open to those who elect a major in Near Eastern Studies.*

### Advising

Undergraduate Advisors at the International Institute are available to meet with undeclared students who would like to learn more about the program, and also with current majors and minors who would like to discuss course selection, degree requirements, major/minor releases, and other matters of concern. Appointments can be made through our online appointment calendar by clicking on: [meet with an advisor](#). Information on all of our undergraduate programs and Walk-In Advising hours can also be found on our website: [here](#). The International Institute's Undergraduate Advising Office is currently located at 1080 South University Avenue, Suite 2660.

### Prerequisites

**One of the following first-year language sequences or the equivalent:**

- ARABIC 101 and 102
- ARMENIAN 101 and 102
- HEBREW 101 and 102
- PERSIAN 101 and 102
- TURKISH 101 and 102

### Strongly recommended:

- NEAREAST 100 (Peoples of the Middle East)
- AAPTIS 204 (Introduction to Islam)

### Requirements

### Minimum Credits: 30

A minimum of 30 credits at the 200-level and above, chosen in consultation with and approved by the undergraduate department advisor. The courses chosen must include:

#### 1. Core Courses

- MENAS 493
- One 300 or 400-level, advisor approved, course in Anthropology, Sociology, or Women's Studies
- HISTORY 443 and one additional 300 or 400-level, advisor approved, course in pre-1800 Middle East history
- Political Science, any one of the following: POLSCI 351, 352, 353.

2. **MENAS Language Requirement for the Major.** One year of the following languages beyond the first year: Arabic, Armenian, Hebrew, Persian, or Turkish.

3. **Electives.** Two approved electives, selected in consultation with the advisor, with appropriate Middle East content.

### Honors

Special arrangements are made for qualified students to elect an Honors major. Candidates for an Honors major undertake independent research which is reported in a senior Honors thesis. Prospective Honors majors should consult with the Honors department advisor before the end of the junior year and should enroll in one of the senior Honors thesis courses approved by the advisor.

## Modern Middle Eastern and North African Studies (Minor)

The Center for Middle Eastern and North African Studies offers an interdisciplinary minor to students who wish to gain insight into the political, economic, and social issues affecting the Middle East and North African, and who wish to achieve an understanding of the region's history and culture. Emphasis in this minor is on the modern Middle East and North Africa.

*Effective Fall 2006*

### Exclusions:

*A minor in Modern Middle Eastern and North African Studies is not open to students with a major in Middle Eastern and North African Studies or a major or minor in the Department of Near Eastern Studies.*

### Advising

Undergraduate advisors at the International Institute are available to meet with undeclared students who would like to learn more about the program, and also with current majors and minors who would like to discuss course selection, degree requirements, major/minor releases, and other matters of concern. Appointments can be made through our online appointment calendar by clicking on: [meet with an advisor](#). Information on all of our undergraduate programs and Walk-In Advising hours can also be found on our website: [here](#). The International Institute's Undergraduate Advising Office is currently located at 1080 South University Avenue, Suite 2660.

### Prerequisites

NEAREAST 200 / RELIGION 201: Introduction to World Religions: Near Eastern

**Requirements**

**Minimum Credits:** 15

At least 15 credits of courses, chosen in consultation with and approved by advisor:

1. A 400-level history course
2. A 400-level social science course in either Anthropology, Political Science, or Sociology
3. MENAS 493

Courses must be distributed over three of the following disciplines: 3rd year of middle eastern language, anthropology, history, history of art, middle eastern literature, political science, religion, sociology or women's studies.

**Constraints**

Elementary and intermediate-level language courses in Near Eastern Studies may not count toward the minor.

**Residency**

At least one half of the courses counting toward the minor must be taken at the UM-Ann Arbor campus.



# Molecular, Cellular, and Developmental Biology

## Cellular and Molecular Biology (Major)

The curriculum in Cellular and Molecular Biology offers students an integrated program of study and training in the biological and physical sciences. It is a pathway to graduate study in areas of biology and medicine that emphasizes a quantitative and analytical approach to the life sciences.

Effective Winter 2017

### Exclusions:

Students who elect a major in Cellular and Molecular Biology may not elect the following majors: Biology; General Biology; CMB:BME, Microbiology; Plant Biology; Biochemistry; Biomolecular Science; or Neuroscience. They may also not elect a minor in Biology; Plant Biology; Chemistry; or Biochemistry.

### Advising

Students are advised by a combination of Undergraduate Biology Office staff and faculty department advisors. Advising topics include investigating majors, declaring a major, course planning, research and honors, major releases, graduate school and career advice. Students who are interested in the CMB majors or minors should consult a general advisor during the freshman year, and are strongly encouraged to meet with a department advisor early in their academic career, but no later than the second term of their sophomore year. It is not necessary to complete every prerequisite before declaring a major. To make an appointment, go to the Program in Biology website at <http://www.lsa.umich.edu/biology/>.

### Grade Policies

#### Total Credits and GPA Requirement for Cellular and Molecular Biology:

Minimum 32 cr. in Major

Minimum 2.0 GPA in Major

GPA is calculated from all mandatory prerequisites, all courses used for major requirements (including cognates), and all courses in BIOLOGY, EEB, and MCDB.

The introductory biology sequence must be taken for a grade. Prerequisites other than introductory biology may be taken pass/fail; however, it is not recommended, especially for chemistry. Remember that at least a C- must be earned to pass a course taken pass/fail.

Courses used for the major may not be taken pass/fail.

### Prerequisites

#### Introductory Biology Sequence:

Choose Sequence A or B:

- A. BIOLOGY 171, 172 or 174, & 173; or,
- B. BIOLOGY 195 (AP) & 173

#### Chemistry Sequence:

- CHEM 210 & 211; and
- CHEM 215 & 216

#### Quantitative Analysis Sequence:

- CALCULUS I: MATH 115, 120 (AP), 175, 185, or 295; and,
- One course from: MATH 116, 121 (AP), 156, 176, 186, or 296; STATS 180, 250 or 280; STATS 400-level or above (min. 3 credits); BIOLOGY 202; BIOPHYS/PHYSICS 290, EECS 203 or 280; EARTH 468; or other course with a MATH 115 prereq. chosen in consultation with a major advisor. [Note: Any course used to fulfill this requirement cannot also be used as a major elective; i.e. a course cannot "double-count."]

#### Physics Sequence:

- Physics I (lecture & lab): One of the following combinations: PHYSICS 125 & 127, 135 & 136, 140 & 141, or 160 & 161. PHYSICS 139 (AP) will also fulfill this requirement.
- Physics II (lecture & lab): One of the following combinations: PHYSICS 126 & 128, 235 & 236, 240 & 241, or 260 & 261. PHYSICS 239 (AP) will also fulfill this requirement.

#### Requirements

##### Minimum Credits: 32

##### Core Courses:

- Genetics: BIOLOGY 305
- Biochemistry: Choose from: MCDB 310, BIOLCHEM 415, or CHEM 351
- Molecular Biology: MCDB 427
- Cell Biology: MCDB 428

##### Electives:

##### Group I - Advanced CMB Laboratory Courses:

- Choose two courses from: MCDB 306, 400 (3 cr. min./max.), 413, 419, 423, 429

##### Group II - Advanced CMB Courses:

- Choose two courses from: MCDB 401, 402, 403, 404, 405, 408, 410, 411, 415, 416, 417, 418, 421, 422, 425, 426, 430, 433, 435, 436, 440, 441, 444, 448, 450, 453, 454, 455, 456, 457, 459, 462, 469, 471, 489, 589, or an additional course from Group I

##### Group III - Biology/Chemistry Elective:

- Choose one course from: BIOLOGY 205, 207, 225; MCDB 308, 321; CHEM 230, 260, 241/242, 245/246/247, 452, or an additional course from Groups I or II

##### Group IV - Additional Electives:

- Choose course(s) from the following list, to reach 32 credits in major:
  1. Additional courses from Group I, II, or III (above)
  2. Any specific BIOLOGY, EEB, or MCDB course at the 200-, 300-, or 400-level (except BIOLOGY 200, 201,

202, 215, 241, 262; or EEB 300, 301, 302; or MCDB 300, 301, 302, 320, or 412)

3. Any Chemistry course that has CHEM 260 as a prerequisite
4. MATH courses that have a MATH 116 prerequisite; or STATS 401, 412, or 425; or BIostat 503
5. BIOLCHEM 650 - Eukaryotic Gene Expression
6. PHRMACOL 425 - Development of New Medications: Pharmacology in Action
7. MICRBIOL 405 - Medical Microbiology and Infectious Diseases

### Constraints

- Prerequisites, introductory science courses, and non-specific (departmental) transfer courses are EXCLUDED from the 32 cr. required for the major.
- A maximum of three credits of independent research (MCDB 400) may be counted toward the major. Three credits must be completed in one term to meet the Advanced Laboratory requirement or the Advanced CMB Course requirement.

### Honors

The Program in Biology administers an Honors Program to train students to conduct independent research in the biological sciences. Participating in the honors program allows students to develop their research skills, deepen their understanding of the field, and form productive relationships with faculty and other students. The achievement is noted on the diploma and official transcript.

In addition to completing all the requirements for the major, an honors degree requires:

1. a major GPA of at least 3.4, and
2. the completion of a significant piece of independent research that is
  - reported in an honors thesis and
  - presented in a public forum.

For more information, consult the Program in Biology Honors Program Information page or a Program in Biology advisor.

## Cellular and Molecular Biology and Biomedical Engineering (Major)

The CMB:BME program is designed for students enrolled in the College of Literature, Science and the Arts. The program is jointly administered by the Molecular, Cellular, and Developmental Biology (MCDB) Department (College of LS&A) and the Biomedical Engineering (BME) Department (College of Engineering). A matriculating student will receive the B.S. in Cellular and Molecular Biology (CMB) from the College of LS&A and the M.S. in Biomedical Engineering (BME) from the College of Engineering upon completion of all program requirements.

Students will be admitted to the program only after completing the major prerequisites. Admission to the program must be approved by advisors from the Departments of MCDB and BME.

Declaration requirements and application can be found here: [https://umich.qualtrics.com/jfe/form/SV\\_1GnYv0KSNRgPaG9](https://umich.qualtrics.com/jfe/form/SV_1GnYv0KSNRgPaG9)

*Effective Winter 2018*

### Exclusions:

*Students who elect a major in CMB:BME may not elect the following majors: Biology; General Biology; Cellular and Molecular Biology; Microbiology; Plant Biology; Biochemistry; or Neuroscience. They may also not elect a minor in Biology; Plant Biology; Chemistry; or Biochemistry.*

### Advising

Upon acceptance into the program, each student will be assigned two advisors, one in MCDB and one in Biomedical Engineering.

Student course selections must be approved by both advisors each term. Students are advised by a combination of Undergraduate Biology Office staff and faculty department advisors. Advising topics include investigating majors, declaring a major, course planning, research and honors, major releases, graduate school and career advice. Students who are interested in the CMB majors or minors should consult a general advisor during the freshman year, and are strongly encouraged to meet with a department advisor early in their academic career, but no later than the second term of their sophomore year. It is not necessary to complete every prerequisite before declaring a major. To make an appointment, go to the Program in Biology website at <http://www.lsa.umich.edu/biology/>.

### MS phase

A student may apply to the M.S. phase during the fourth year, when the student has achieved senior standing. For admission to the M.S. phase, the student must minimally have completed all major prerequisites and be judged by both academic advisors as making satisfactory progress towards the B.S. At this time, the student must formally apply to the Rackham Graduate School for admission to the M.S. program in Biomedical Engineering. Students with a 3.2 or higher cumulative GPA in the B.S. program in CMB and who are judged by both academic advisors as making timely progress towards the B.S. degree will be admitted to the M.S. phase. Students will be charged graduate tuition for only one academic year. Students are never jointly enrolled in LSA and Rackham; however, students can begin to take graduate BME courses as undergraduates with the permission of the instructor.

Please see the Rackham website for specific policies: [www.rackham.umich.edu/help/academic\\_records/sugs\\_information\\_for\\_engineering/](http://www.rackham.umich.edu/help/academic_records/sugs_information_for_engineering/)

### Grade Policies

#### Total Credits and GPA Requirement for CMB:BME:

Minimum 47 cr. in Major

Minimum 3.2 GPA in Major

GPA is calculated from all mandatory prerequisites, all courses used for major requirements (including cognates), and all courses in BIOLOGY, EEB, and MCDB.

Minimum 3.2 Cumulative GPA is needed for admission to the M.S. program.

The introductory biology sequence must be taken for a grade. Prerequisites other than introductory biology may be taken pass/fail; however, it is not recommended, especially for chemistry. Remember that at least a C- must be earned to pass a course taken pass/fail.

Courses used for the major may not be taken pass/fail.

### Prerequisites

#### Introductory Biology Sequence:

Choose Sequence A or B:

- A. BIOLOGY 171, 172 or 174, & 173; or,
- B. BIOLOGY 195 (AP) & 173

#### Chemistry Sequence:

- CHEM 210 & 211; and,
- CHEM 215 & 216

#### Quantitative Analysis Sequence:

- CALCULUS I: MATH 115, 120 (AP), or 185; and
- CALCULUS II: MATH 116, 121 (AP), 156, or 186

#### Physics Sequence:

- Physics I (lecture & lab): One of the following combinations: PHYSICS 125 & 127, 135 & 136, 140 & 141, or 160 & 161. PHYSICS 139 (AP) will also fulfill this requirement.
- Physics II (lecture & lab): One of the following combinations: PHYSICS 126 & 128, 235 & 236, 240 & 241, or 260 & 261. PHYSICS 239 (AP) will also fulfill this requirement.

#### Undergraduate Engineering:

- ENGR 101 or EECS 183

### Requirements

**Minimum Credits:** 47

#### Core Courses:

- Genetics: BIOLOGY 305
- Biochemistry: Choose from: MCDB 310, BIOLCHEM 415, or CHEM 351
- Genetics Laboratory: BIOLOGY 306
- Molecular Biology: MCDB 427
- Cell Biology: MCDB 428 or BIOMEDE 418
- Cell and Molecular Biology Laboratory: MCDB 429

#### Advanced CMB Course:

- Choose one course from: MCDB 400 (3 cr. min./max.), 401, 402, 403, 404, 405, 408, 410, 411, 415, 416, 417, 418, 419, 421, 422, 423, 425, 426, 430, 433, 435, 436, 440, 441, 444, 448, 450, 453, 454, 455, 456, 457, 459, 462, 469, 471, 489, 589

#### Biology Elective(s):

- Choose course(s) to reach 47 credits in major: Any specific BIOLOGY, EEB, or MCDB course at the 200-, 300-, or 400-level (EXCEPT BIOLOGY 200, 201, 241, 262; EEB 300, 301, 302; MCDB 300, 301, 302, or 412)

#### Engineering Courses:

- Choose either Series 1 or 2

1. Chemical Engineering: CHE 230, CHE 330, and CHE 342 or 344
2. Biomedical Engineering: BIOMEDE 221, BIOMEDE 321, and BIOMEDE 331

#### Cognates:

- STATS 400, 401, 412, or 425 (min. 3 credits)
- MATH 215
- MATH 216

#### Constraints

- Prerequisites, introductory science courses, and non-specific (departmental) transfer courses are excluded from the 47 cr. required for the major
- A maximum of three credits of independent research (MCDB 400) may be counted toward the major. Three credits must be completed in one term to meet the Advanced CMB Course requirement.

#### Honors

The Program in Biology administers an Honors Program to train students to conduct independent research in the biological sciences. Participating in the honors program allows students to develop their research skills, deepen their understanding of the field, and form productive relationships with faculty and other students. The achievement is noted on the diploma and official transcript.

In addition to completing all the requirements for the major, an honors degree requires:

1. a major GPA of at least 3.4, and
2. the completion of a significant piece of independent research that is
  - reported in an honors thesis and
  - presented in a public forum.

For more information, consult the Program in Biology Honors Program Information page or a Program in Biology advisor.

# Multidisciplinary Design Program (College of Engineering)

Undergraduate students can benefit from practical experience designing technology systems in collaboration with students from other disciplines both inside and outside of engineering. This experience requires students to apply their developing disciplinary skills to projects that also require broader multidisciplinary concepts and approaches. This will expose participating students to systems engineering concepts and will help them succeed in the fast-paced, global and entrepreneurial market for graduate students and professionals in the 21st century.

## Multidisciplinary Design (Minor)

A minor in Multidisciplinary Design requires students to exercise their acquired disciplinary expertise in the context of a significant multi-semester team design-build-test project. This project must be multidisciplinary and involve concepts and approaches from at least two other disciplines to be completed successfully. The projects closely follow the following elements or steps:

1. problem definition based on qualitative and/or quantitative requirement
2. generation of creative solution concepts,
3. analysis of the quality of proposed concepts,
4. selection and optimization of a final concept,
5. evaluation of the final concept through the building and
6. testing of prototypes in realistic settings (or virtual models with models of the applicable environment), and iteration and/or detailed recommendation for improvement of the final concept based on the lessons learned from Steps 1 through 5.

These design projects are conducted during or after the student has taken a defined set of preparatory courses and ideally feature a meaningful connection with at least one discipline outside of engineering.

### Intended Audience

While the minor would be open to all qualified students in LSA, it expected to be of interest primarily to students in Life Sciences, Physical Sciences, and Mathematics. The Multidisciplinary Design minor promotes a wide range of experiential, project-based opportunities that engage areas of broad interest, e.g., the environment, sustainability, social service, global health, space exploration, etc.

### Specializations

Students may join a program specialization that has been designed by a faculty member(s) around their particular interests. Students must apply to and be accepted by the faculty member managing the specialization. Specializations typically include a specified set of courses and projects. Students who complete a specialization will have it noted on their transcripts. There are currently two specializations: Global Health and Social Innovation.

The Multidisciplinary Design Minor sets you apart from other students and demonstrates your deep understanding of design in a real-life

context. The MD Minor incorporates practical teamwork skills with classroom learning, culminating in an intensive, hands-on, multi-term design project. This Minor is highly individualized, and customized to support you as you develop your skills on a project that you care about. The Multidisciplinary Design Minor is currently available to students in Engineering, Business, Art & Design, Architecture, Kinesiology, and Literature, Science & the Arts.

### Minor Requirements

The Multidisciplinary Design Minor requires 15 credit hours across 4 key experiences. This program is highly individualized. The courses below represent common enrollments for MDP students, but the minor looks different for every student.

- Introductory Design, Build Test Experience (2 – 4 credits)
  - The following courses have most commonly been used to fulfill the DBT (Design, Build, Test) Experience: ENGR 100 (DBT sections only); ENGR 255; AEROSP 205 or 280; BME 350; EECS 183; ME 250; NAME 270; ARTDES 120 or 130
  - The DBT requirement can also be fulfilled through an additional semester on your multi-term project team.
  - Other approved courses on an individual basis.
- Multi-Term Design Project (minimum of 7 credits across 2 or more terms)
  - Connect with a project through student organizations; apply for Partner-Sponsored Projects and Faculty Research Projects at the MDP Project Opportunity Fair in October.
  - PLEASE NOTE: the multi-term design cycle experience must be learned at 300-level or higher
  - Possible curricularization options: ENGR 355/455; AOSS 380, ME 490
  - Other approved courses or projects on an individual basis
- Connections Course (3 – 4 credits)
  - Broadens your perspective and lends depth to your work on the Multi-Term Design Project
  - Cannot be required for your major; must be approved by MDP Academic Advisor
  - Courses outside of your major (or, better yet, outside your college!) highly encouraged.
  - Must earn a letter grade of at least a C
  - Click to fill out the [Petition for Connections Course Form](#).
  - Some examples of Connections Courses (Project Team, Student's Major, Connections Course):

M-Fly Team, Aerospace Engineering, ENTR 599.018 Interpersonal Skills:  
Leveling up to Leadership

Stryker Diagnostic Team, Art & Design, IOE 548: Integrated Product  
Development

Solar Car Team, Chemical Engineering, MO 302: Positively Leading  
People & Organizations

Woven Wind Team, Electrical Engineering, UP 357: Architecture,  
Sustainability and the City

Pillar Project Team, Computer Science Engineering, SI 422: Needs  
Assessment and Usability Evaluation

General Motors Project Team, Business Administration, ES 395:  
Entrepreneurial Management

- Mentorship/Leadership Course (2 credits)
  - Enrollment through ENGR 456 only
  - Attend semester-long seminar (5 evening meetings and writing assignments)
  - Mentoring experience (further details can be found here)
- How to Declare the Minor
  - Be in good academic standing (2.0 or above, in both term and cumulative GPAs).
  - Be declared into a major or concentration, as determined by your School or College.
  - Have successfully connected with a project team.
  - Schedule an appointment with the MDP Academic Advisor to declare the minor.

PLEASE NOTE : All courses/credits must be earned at the University of Michigan-Ann Arbor; no transfer credit can be applied to the MD Minor. All courses/credits must be taken for a letter grade, except for ENGR 456. Minor GPA and all individual components must be at a 2.0 GPA or higher.

# Museum Studies Program

## Museum Studies (Minor)

The primary goal of the minor in museum studies is to teach students how museums work, both in historical and contemporary contexts. Doing so involves learning to critically engage the historical, social, cultural, artistic and scientific dimensions of heritage, both tangible and intangible, within the museum. The museum studies minor seeks to foster "museum literacy" by introducing students to the processes by which meaning is inscribed upon objects within the context of museums and to the roles museums, broadly defined, play in society. Institutions, objects and collections, and society thus form the curriculum's conceptual foci.

**Objects and Collections** — The artifact, collections of artifacts maintained by museums, and the information associated with them:

the nature of objects; learning from objects; disciplinary perspectives on the object; the role of museum artifacts in research; conservation; connoisseurship; collectors and collecting; tangible and intangible culture; how objects acquire their meaning; the real vs. the represented; exhibit design (how museums choose to display objects)

**Institutions** — The wide variety of organizations that collect and display artifacts for education, research, or entertainment:

the history of museums; administration, governance, and ethics; non-profit and for profit models of museums; national vs. local museums; museums in their various forms (i.e., science centers, zoos, botanical gardens, history centers, art museums, themed experiences); the relationship of museums to libraries and archives; rationalizing the museum within society; museum design and architecture; assessment; technology in museums; organization of and access to museum information; professional associations at the state, national and international levels

**Society** — The audiences that museums engage, individually or collectively, and the communities whose cultures are represented in museum displays:

the role of museums in society; the representation of ethnicity, gender, race, and culture in museums; the role of museums in nation building; public culture; repatriation and debates over the ownership of cultural properties and cultural heritage; visitor studies; learning in museums; defining the museum experience; audience and visual perception studies

Investigations into the interrelationships that exist between these three foci will add to the wealth of material addressed in the curriculum. Indeed, some of the most interesting issues exist at the intersections of these foci.

Students will derive multiple secondary benefits from this course of study - new content knowledge, an enhanced ability to conduct research in one's academic discipline, a new means by which to understand other cultures and societies, a heightened awareness of the points of view afforded through multidisciplinary study and understanding the relationship of how one's discipline relates to other disciplines, an increased capacity for critical thinking and observation, and the personal empowerment derived from becoming more informed users of cultural assets, especially those available at the University of Michigan.

Despite being situated in the College of LSA, the undergraduate minor has been designed to accommodate majors from other schools and colleges at the university. While it has been broadly conceived, the museum studies minor will hold special appeal to students concentrating in Anthropology, Classical Archaeology, History, History of Art, American Culture, and Communication Studies, where students are first introduced to these topics.

*Effective Fall 2009*

### Advising

Advising responsibilities are divided between the Museum Studies Program Student Services Specialist and Museum Studies faculty, specifically the Director and Associate Director. General questions regarding curriculum requirements will be handled by the Student Services Specialist. The Specialist will also serve as the coordinator for the practicum requirement (MUSEUMS 409). The Director and Associate Director advise students on issues concerning elective course selection, graduate study, and career planning.

### Prerequisites

None for the minor *per se*, although individual courses elected to meet the requirements of the minor may have course prerequisites.

Students will be eligible to declare their desire to pursue the Museum Studies minor upon completion of MUSEUMS 301 (sophomore standing).

### Requirements

#### Minimum Credits: 18

1. **Core Courses:** MUSEUMS 301 and 401. MUSEUMS 301 and MUSEUMS 401 provide a theoretical/historical overview of museums as examined through the constructs of institutions, objects and collections, and society as well as an examination of the critical issues confronting museums in the contemporary world.
2. **Museum-Based Practicum:** MUSEUMS 409 (Practicum in Museums) will be available to students who have declared the minor in Museum Studies. MUSEUMS 409 establishes a critical bridge between theory and practice and - through the use of mentoring, class discussion, and engagement with the principles of reflective practice -- will assure that students draw the most from this experiential requirement. Based on the premise that theoretical grounding is necessary for a successful practicum experience, students will not be allowed to seek MUSEUMS 409 credit for museum-based practical experiences undertaken before completing MUSEUMS 301. Students interested in acquiring additional museum experience may repeat MUSEUMS 409 for a total of six credits. In such instances the second three credits may replace one of the required three elective courses.
3. **Electives:** Three elective courses chosen in consultation with, and approved by, the museum studies faculty advisor. These courses are selected from designated 300- and 400-level courses in the three thematic areas (institutions, objects and collections, and society) of the program. Students must elect one course from at least two of the three areas.

1. Institutions

2. Objects & Collections
3. Society

A complete list of current electives can be found on the [Museum Studies website](#).

The electives offer students the opportunity to take courses to further their knowledge of institutions, objects and collections, and society in many departments in the university. Those students selecting courses not directly focused on the museum will have the opportunity to make critical ties back to the field through the completion of mentored writing assignments. To receive elective credit for a course that is not explicitly museum-focused, upon receiving prior approval a student will be required to write a brief (5-page) rationale paper that addresses the relationship between the content of the course and issues considered in the two museum studies core courses, MUSEUMS 301 and 401. The academic staff of the Museum Studies Program will evaluate these papers.

# School of Music, Theatre and Dance

## Design and Production (Minor)

Creating theatre is about people working together. In all of our endeavors, we continually strive toward the highest standards of excellence. Work in the Theatre Department requires enormous energy and dedication. Programs are structured to help each student realize his or her unique potential. Development of skills is systematic and disciplined, and opportunities to explore individual creativity are enormous. The Design & Production faculty are working professionals with extensive theater credits. It is the expectation of the faculty that all students should excel in their course work.

D&P core courses cover all facets of design and production, including aesthetics, theory, history, literature, graphics, technology and crafts. **NOTE: Permission of instructor is necessary for all courses.** In addition to classroom study, you'll work on shop and crew assignments to hone your skills.

The School of Music, Theatre, & Dance produces 10 main stage productions each year. These productions are realized by the staff of University Productions, which is organized on the model of a professional theatre company. By working on productions, students gain valuable experience which serves as a foundation for a resume and portfolio. Through work in the shops, students benefit from "in the field" experience with our professional staff, who teach within this shop setting, as well as in the classroom.

All university productions are built by the staff and students in our shops. Through a series of structured practicum assignments, our students are intimately involved in all levels of this production work. Practicum assignments are made individually for each student by the D&P faculty and staff. Selection of assignments is based on consideration of the student's skills and abilities, interests and needs, and class performance, as well as on the needs of each production and workshop. We strongly encourage that students register for only one practicum per semester. The number of credit hours per practicum varies, based on practicum level. The student should expect to work between 45-60 hours per credit hour, although a practicum course is generally assigned on a per-project basis. For shop assignments, the hours are generally concentrated into a 4- to 6-week build schedule. For design assignments, the time commitment is similarly concentrated.

### Overview

The Department of Theatre & Drama offers a minor in Design & Production to eligible UM students. Students enrolled in the Theatre Department's current degree programs; Performance, Directing and the BTA are not eligible for this minor, nor are the students majoring in the InterArts degree. Students will choose one of the four D&P tracks and confine their studies to that area. Students interested in this program must take two classes listed in their area of interest to become eligible for this program. At that point the student would interview with the Design & Production faculty. Students must secure written approval from their home school/college to pursue a D&P minor and must develop a plan for the minor in consultation with an advisor in the Design & Production Program.

### Design & Production Course List

#### Minor Tracks

##### Scenic Design Track

THE260: Scene Design I	3
THE360: Scene Design II	3
THE460: Scene Design III	3
THE263: Rendering	3
THE464: Scene Painting	3
THE462: Drafting	3
<b>Total Credits:</b>	<b>18</b>

##### Lighting Design Track

THE245: Intro to Stage Management	3
THE256: Lighting Design I	3
THE356: Lighting Design II	3
THE456: Lighting Design III	3
THE251: Practicum I - Light Board Op	1
THE252: Practicum II - Focus Crew	1
THE261: Practicum III - Assistant ME	2
THE351: Practicum V - Assist. Lighting Des.	2
<b>Total Credits:</b>	<b>18</b>

##### Costume Design Track

THE263: Rendering	3
THE277: History of Dress	3
THE270: Costume Design I	3
THE370: Costume Design II	3
Additional credits to be chosen from: 6	
THE470: Costume Design III (3 credits)	
THE476: Costume Crafts (3)	
THE452: Costume Construction (3)	
THE471: Women's Pattern Drafting (3)	
THE571: Men's Pattern Drafting (3)	
THE172 or 472: Make-up Design (1-2)	
THE251, 252: Production Practicums (1 ea.)	



**Total Credits** 18

**Stage Management Track**

THE245: Intro to Stage Management 3

THE250: Intro to Tech Theatre 3

THE321 or 322: Theatre History I or II 3

THE351: Practicum V - 1st ASM 3

Additional credits to be chosen from: 6

THE101: Intro to Acting (3 credits)

THE240: Intro to Design (3)

THE256: Lighting Design I (3)

THE345: Stage Managing Plays (3)

THE385: Performing Arts Management (3)

THE435: Producing in American Theatre (3)

THE446: Advanced Stage Management (3) THE462: Drafting (3)

**Total Credits:** 18

## ***Global Theatre and Ethnic Studies (Minor)***

“Ethnic studies” references ethnic, under-represented communities in the United States and their diaspora affiliations overseas. It includes, but is not limited to African American, Arab American, Asian/Pacific Islander American, Latino/a, and Native American communities. The scope of this minor includes the dramatic literature of these American communities and embraces global literature and performance practices that are in dialogues with these communities.

The goal of this minor is to introduce students to literature and performance histories of diverse cultures and to use studio practice to develop proficiency in creating new work from diverse cultural perspectives. The minor is designed for humanities students, arts students, and other students interested in performance practice (music, theatre, dance, or dramatic literature) based upon diverse cultural perspectives, and provides experience in non-western performance practice, playmaking, and theatre studies.

By completing this minor, students will develop skills in text analysis, historical/cultural research, critical thought and public performance. In addition, they will learn how performance practices can be used to critically interrogate global histories and social structures.

Students will learn:

- To research and articulate (through writing and performance) multicultural and intercultural performance histories.
- To read and analyze theatrical works emerging from diverse cultural contexts.
- To perform and create new dramatic works that represent diverse cultural perspectives
- To organize, networks, and interact with diverse cultural communities around performing arts practice.

### ***Overview***

- Teaches students how to analyze, perform and create works emerging from diverse cultural contexts
- Develops skills in multi-cultural and intercultural performance analysis, historical/cultural research, critical thought and public performance
- Engages students in organizing, networking and interacting with diverse cultural communities

The minor complements existing programs in SMTD, LSA, Art and Design, and the Residential College by providing students with global and diverse perspectives on performance. For performance majors (Theatre, Music, and Dance), the minor builds upon traditional arts training and enhances job prospects in an increasingly interdependent cultural economy. For non-theatre majors, the minor provides experiences in performance practice, playmaking, and theatre studies.

### ***Credits***

The minor requires 5 courses or 15 credits of coursework. Courses are a balance of studio practice classes and applied literary analysis. A capstone course immerses students in an international and/or community engagement experience.

### ***Course Descriptions***

**222 Introduction to Global Theatre and Ethnic Studies:** Surveys performance histories of diverse cultural communities of the United States. Students study transnational origins and cultural contexts for multi-cultural theatre: African American (African, Caribbean, Afro-Latino), Native American, Latin American, Asian American (Southeast Asian, East Asian), Middle Eastern, and others. Students study multi-cultural literatures and practices in the United States. Students learn about performance histories and practices of culturally diverse communities in the United States, study performance aesthetics emerging from Asian American, African American, Latin American and Native American communities, and learn how to read and analyze diverse plays by United States authors in cultural context.

**233 Studio: Modern Rituals/Traditional Practices:** Trains students in performance techniques grounded in various cultural traditions: choral singing, masking, poetry, vocal call and responses, dance, martial arts, and mimicry. Embodied studio practice emphasizes aesthetics of diverse cultural communities. Guest artists and instructors interact with students in the instructional space. Students learn how practice emerges from culturally specific contexts, how to embody culturally specific aesthetics and practices, and they train in the vocal, physical and theatrical expression skills.

**325 Contemporary American Theatre and Drama:** Examines works and developments in American theatre and drama from the past twenty years, especially the diverse and multicultural drama of this period. Looks at elements of class and ethnicity, urbanization, family and community, war and technology, commercialism and consumerism, gender, race, and sexuality.

**326 Intercultural Drama:** Examines how international dramatic literature in translation comments on global lives and lifestyles. Class reads, analyzes and discusses intercultural plays in cultural context. Written assignments and in-class presentations investigate the political, social, and cultural impact meaning of intercultural dramatic works. Students learn to analyze themes, structures, characters, and language of intercultural/international plays through the lens of cultural studies.

**332 Performing Archives and Oral Histories:** Students use ethnographic or archival sources to create new performance works. Building on histories introduced in 222, they create individual or small group projects. Interpretative text and character work helps to improve individual student performance skills.

**340 Devising Theatre:** The course is a laboratory course for play development. The class creates collaborative theatrical works from text, visual art, movement, stories and/or contemporary events. The class develops performances through improvisation, then organizes and evaluates their work using principles of dramatic structure, and play analysis. Dramaturgy and directing skills are introduced through studio practice and critique.

**440 Special Topics in Global/Ethnic Theatre:** This is an in-depth research and performance course that examines African American Theatre. The class investigates history, biography, international or contemporary aspects of African descendent theatre.

**324 Global Community Practicum:** Engages students in research and development of performance projects at a local, community organization or at an international site. The class participates in fieldwork experiences and each individual submits a final project report or thesis at the end of their fieldwork. The Capstone course is collaborative and interdisciplinary and multiple faculty members can supervise and approve student work.

#### Course Plan

##### Year 1

- The required introductory course, **THREMUS 222 Introduction to Global Theatre and Ethnic Studies** is a history and literature survey course about multi-cultural performance histories in the United States with an emphasis on transnational origins of contemporary practice. This lecture and discussion course is designed for a broad cross-section of performance and liberal arts students.
- **THREMUS 233 Modern Rituals/Traditional Practices** is the required introductory studio practice course. Students learn expressive vocal and physical and storytelling practices from a variety of cultural communities.

##### Year 2/3

- Students elect one of two advanced literature analysis courses, **THREMUS 325 Contemporary American Drama** or **THREMUS 326 Intercultural Drama**.
- Students elect one of three advanced studio practice courses: **THREMUS 332 Performing Archives and Oral Histories** or **THREMUS 340 Devised Theatre** or **THREMUS 440 Special Topics**.

##### Year 3/4

Students are required to participate in a supervised experience in engaged theatre practice, **THREMUS 324 Global Community Practicum** or its equivalent.

#### Curriculum Map

##### Year 1 Fall

222 Intro to Global Theatre and Ethnic Studies

##### Year 1 Winter

##### Year 2 Fall

325 or 326 Literature elective

##### Year 2 Winter

233 Modern Rituals/Traditional Practices

##### Year 3 Fall

332 or 340 or 440 Studio elective  
OR 325 or 326 Literature elective

##### Year 3 Winter or Spring

332 or 340 or 440 Studio elective  
OR 324 Community Practicum

##### Year 4 Fall

##### Year 4 Winter or Spring

324 Community Practicum

## Music (Major)

The Music major provides students with broad experience in the study of music (both creative expression and critical analysis), through musicology and music theory, along with introductions to musical composition and performance. The LSA Major works in conjunction with the LSA Bachelors of Arts and Sciences degrees and provides a liberal arts alternative to the Bachelor of Musical Arts and Bachelors of Music degrees offered within the School of Music.

The objectives of this major are to encourage the study of music as art and culture in the many contemporary and historical contexts of its creation, performance, dissemination, reception, and representation, including an understanding of the relationships and distinctions among the musical cultures of diverse historical epochs, civilizations, and geographical regions. Musical study fosters an awareness of the aesthetic, social, political, religious, and personal values that may be embedded in musical works and practices; an understanding of theoretical approaches to music and the relations between music and other arts and disciplines; and an awareness of the impact of technology on musical creation and production.

*Effective Fall 2015*

#### Prerequisites

None.

#### Requirements

##### Minimum Credits: 30

A minimum of thirteen courses are required; with the permission of the department advisor, as many as five courses from outside the University of Michigan may be accepted to fulfill requirements for the major. Eight courses must be taken at the University of Michigan, including the following:

1. **Musicology (MUSICOL): one introductory course** in music (MUSICOL 121, 122, or 123 or advisor approved equivalent) and **two additional courses** of in Musicology or Ethnomusicology (MUSICOL 122, 123, 343, 345, 346, 351, 411, 450, 456, 458, and other 300-400 level courses, or advisor approved equivalent). MUSICOL 139, 140, 239, or 240, may be elected to fulfill requirements for the major with permission of the instructor and the department advisor. (*revised 2/3/05*)

2. **Music Theory (THEORY): two courses** of basic music theory (THEORY 137 (section 001, plus a lab section 002-005) and 238 (section 001, plus a lab section 002-003), or 139/149 and 140/150, or 239/240 and 240/250 or advisor approved equivalent (by permission of instructor).
  3. **Music Composition (COMP):** COMP 221, 222, PAT 201, or equivalent (students with an historical or ethno-musicological focus within the major may request that this requirement be waived through substitution of another 400-level course in Musicology).
  4. **Music Performance:** a total of **four courses** of performance instruction, selected from PIANO 110, 111, 112, 113 or private instruction 150. At least **two courses** of private instruction are required (applied piano class is acceptable as "private" instruction). Private instruction courses are those listed at 150 (VIOLIN 150, PIANO 150, TUBA 150, and so on). Ensemble may be elected to cover two of the four required terms.
  5. Two additional MUSICOL, THEORY, COMP, or PAT courses at the 400 level or above.
- HONORS 354 / RCHUMS 354 / AAS 354 / WOMENSTD 354: Race and Identity in Music
  - LATINOAM 226 / AMCULT 226 / HISTORY 226: The Latin Tinge
  - PHYSICS 288: Physics of Music
  - PSYCH 211: Project Outreach, *section titled "Mind, Music, and the Community"*
  - RCHUMS 249: Foundations of Music
  - RCHUMS 250: Chamber Music
  - RCHUMS 251: Topics in Music
  - RCHUMS 252: Topics in Musical Expression
  - RCHUMS 253: Choral Ensemble: Residential College Singers
  - RCHUMS 256: Studying and Playing Southeast Asian Music
  - RCHUMS 258: Afro-Cuban Drumming and Styles
  - RCHUMS 259: Music Improvisation
  - RCHUMS 350: Creative Musicianship
  - RCHUMS 351: Creative Musicianship Lab
  - RCHUMS 352: Found Instruments: Building, Design, and Performance
  - RCHUMS 354 / AAS 354 / WOMENSTD 354 / HONORS 354: Race and Identity in Music
  - RCHUMS 356: The Symphonic Century: Music and Revolution in the 19th Century
  - RCHUMS 406 / ENS 406: Beginning Javanese Gamelan
  - RCHUMS 407 / ENS 407: Javanese Gamelan Ensemble
  - SOC 255: Sociology of Music
  - WOMENSTD 354 / RCHUMS 354 / AAS 354 / HONORS 354: Race and Identity in Music
  - WOMENSTD 411 / AMCULT 411: Rednecks, Queers, and Country Music
  - All other group music ensembles offered at the 300-level in the Residential College

#### Additional Electives

The core requirements listed here typically demand approximately 30 credits. Music majors may select the remaining music courses in accordance with their personal interests. Students should acquaint themselves with graduate school requirements if they plan to do graduate work in composition, musicology, theory, or performance. The department advisor can assist students in arranging the best program in preparation for graduate studies and discuss the possibility of transferring into the School of Music.

- AAS 354 / RCHUMS 354 / WOMENSTD 354 / HONORS 354: Race and Identity in Music
- AAS 366: Music of Africa
- AMCULT 209: History of American Popular Music
- AMCULT 226 / HISTORY 226 / LATINOAM 226: The Latin Tinge
- AMCULT 228: American Musical Soundscapes
- AMCULT 337: A Survey of American Blues Music
- AMCULT 407: The History of American Folk Music: Culture, Politics, Music
- AMCULT 409: American Roots Music
- AMCULT 411 / WOMENSTD 411: Rednecks, Queers, and Country Music
- AMCULT 436: Music of Asian Americans
- COMM 445: Music and Mediated Identities
- ENS 406 / RCHUMS 406: Beginning Javanese Gamelan
- ENS 407 / RCHUMS 407: Javanese Gamelan Ensemble
- HISTORY 226 / AMCULT 226 / LATINOAM 226: The Latin Tinge

#### Residency

A minimum of thirteen courses are required; with the permission of the department advisor, as many as five courses from outside the University of Michigan may be accepted to fulfill requirements for the major. Eight courses must be taken at the University of Michigan.

#### Honors

Qualified students are encouraged to consider an Honors Plan in Music. The standards for admission are a cumulative grade point average of at least 3.5 and evidence of outstanding ability in music. Application is made and admission is granted to the Honors major during the first term of the junior year. Two additional courses (in performance instruction or at the 400-level or above) are required, and the primary focus of an Honors program is a written senior Honors Thesis or a lecture recital with extensive program notes approved by a Music department advisor. Independent research study with an advisor may

satisfy the additional course requirement (one term of 2 or 3 hours of independent study fulfills one term of the course requirement). Honors majors should elect one term of junior-senior seminar in Musicology or Music Theory.

## Music (Minor)

The Music Minor offers students the opportunity to explore music to enrich their studies and receive formal recognition on their diploma. The minor also makes music studies more accessible to students with already demanding majors, such as engineering. Students who have played with an ensemble regularly will likely only need 2 or 3 additional classes to complete the minor.

An academic minor in music is developed in consultation with an undergraduate advisor in music. Appointments are scheduled through the Newnan LSA Academic Advising Center, 1255 Angell Hall (764-0332).

*Effective Fall 2015*

### Exclusions:

*A minor in Music is not open to students with a major in Music, including those in the University of Michigan School of Music, Theatre & Dance.*

### Advising

A minor in music is developed in consultation with an department advisor in music. Appointments are scheduled through the Newnan LSA Academic Advising Center, 1255 Angell Hall (764-0332).

### Prerequisites

None.

### Requirements

#### Minimum Credits: 15

At least 15 credits (and five courses), to be chosen from the following two categories as stated below:

#### 1. Required Survey Course:

- MUSICOL 121: Introduction to Music
- MUSICOL 122: Introduction to World Music
- MUSICOL 123: Introduction to World Music
- MUSICOL 343: Music and Islam
- MUSICOL 345: History of Music
- MUSICOL 346: History of Music
- MUSICOL 130: Opera!
- MUSICOL 139/140: History of Music
- MUSICOL 239/240: History of Music
- Introduction to Music Theory (THEORY 137, or 139/149), or equivalent

#### 2. Electives: at least 12 credits in Music courses, with at least two courses at the 300-level or above. Electives must include one or more courses in two of the following five areas: Composition, Musicology, Music Theory, Performance, and Performing Arts Technology.

- AAS 354 / RCHUMS 354 / WOMENSTD 354 / HONORS 354: Race and Identity in Music
- AAS 366: Music of Africa
- AMCULT 209: History of American Popular Music
- AMCULT 226 / HISTORY 226 / LATINOAM 226: The Latin Tinge
- AMCULT 228: American Musical Soundscapes
- AMCULT 337: A Survey of American Blues Music
- AMCULT 407: The History of American Folk Music: Culture, Politics, Music
- AMCULT 409: American Roots Music
- AMCULT 411 / WOMENSTD 411: Rednecks, Queers, and Country Music
- AMCULT 436: Music of Asian Americans
- COMM 445: Music and Mediated Identities
- ENS 406 / RCHUMS 406: Beginning Javanese Gamelan
- ENS 407 / RCHUMS 407: Javanese Gamelan Ensemble
- HISTORY 226 / AMCULT 226 / LATINOAM 226: The Latin Tinge
- HONORS 354 / RCHUMS 354 / AAS 354 / WOMENSTD 354: Race and Identity in Music
- LATINOAM 226 / AMCULT 226 / HISTORY 226: The Latin Tinge
- PSYCH 211: Project Outreach, *section titled "Mind, Music, and the Community"*
- PHYSICS 288: Physics of Music
- RCHUMS 249: Foundations of Music
- RCHUMS 250: Chamber Music
- RCHUMS 251: Topics in Music
- RCHUMS 252: Topics in Musical Expression
- RCHUMS 253: Choral Ensemble: Residential College Singers
- RCHUMS 256: Studying and Playing Southeast Asian Music
- RCHUMS 258: Afro-Cuban Drumming and Styles
- RCHUMS 259: Music Improvisation
- RCHUMS 350: Creative Musicianship
- RCHUMS 351: Creative Musicianship Lab
- RCHUMS 352: Found Instruments: Building, Design, and Performance
- RCHUMS 354 / AAS 354 / WOMENSTD 354 / HONORS 354: Race and Identity in Music
- RCHUMS 356: The Symphonic Century: Music and Revolution in the 19th Century

- RCHUMS 406 / ENS 406: Beginning Javanese Gamelan
- RCHUMS 407 / ENS 407: Javanese Gamelan Ensemble
- SOC 255: Sociology of Music
- WOMENSTD 354 / RCHUMS 354 / AAS 354 / HONORS 354: Race and Identity in Music
- WOMENSTD 411 / AMCULT 411: Rednecks, Queers, and Country Music
- All other group music ensembles offered at the 300-level in the Residential College

### Constraints

AP credits may not be used to satisfy requirements of the minor with one exception. AP Credit may qualify, if approved by the advisor, for the Required Survey Course. In this instance, a minimum of 5 other courses, totaling 15 credits, must be elected for the minor.

### Residency

Upon approval of the department advisor, up to six credits earned outside of the University of Michigan or its sponsored programs may be used to fulfill requirements for the minor.

## Performing Arts Management (Minor)

Understanding organizational, promotional, and fundraising techniques can help advance all work in the arts. Whether teaching, creating, or working within a traditional performing arts institution (such as an orchestra, theatre, opera, or dance company), management training amplifies the symbiosis of artistry, institution, and community and enriches the performing arts and culture as a whole.

The minor in Performing Arts Management (PAM) invites exceptional undergraduate students to add an arts business and entrepreneurship background to their academic portfolio. Such a combination is intended to amplify the careers of students interested in advancing the performing arts in America. By gaining the business knowledge and skills of these arts, students throughout the University can add a significant dimension to their education.

### How to Apply:

The School of Music, Theatre & Dance offers a minor in PAM to eligible U-M students in the SMTD, LSA, and the Ross School of Business.

The academic minor in PAM is developed in consultation with the undergraduate advisor. Please contact Professor Greg Poggi at [gpoggi@umich.edu](mailto:gpoggi@umich.edu).

### Requirements for the Performing Arts Management Minor

At least 15 credits with a minimum of five courses to be chosen from the following two categories. Eligible courses taken prior to acceptance to the minor can be used to fulfill the 15-credit hour requirement.

- 1) **Required Topics Courses:** Complete at least 10 credit hours in the following courses:
  - a) Theatre & Drama 385 (Performing Arts Management)- 2 credits
  - b) Arts Administration 406.001 (Marketing and Social Media)- 1 credit
  - c) Arts Administration 406.002 (Cultural Entrepreneurship)- 1 credit
  - d) Arts Administration 406.003 (The Recording Industry)- 1 credit
  - e) Theatre & Drama 426 (Fundraising and the Arts)- 2credits
  - f) Theatre & Drama 435 (Producing in the American Theatre) - 3 credits
  - g) Theatre & Drama 438 (Legal Issues in the Arts) - 3 credits
  - h) Musicology 406 (History of the Music Business)- 3 credits
  - i) Performing Arts Technology 472 (Business of Music)- 3 credits
  - j) Jazz 480 (Career Development for Jazz Musicians)- 2 credits
  - k) Arts Admin 591 (Internship) -1-2 credits
  - l) Organizational Studies 495 (Non-Profit Organizations: Theory and Practice only) - 3 credits
- 2) **Electives:** Remaining credit hours can be earned in courses chosen from the list below:
  - a) Ace 300 (Financial)
  - b) Ace 301 (Managerial)
  - c) Ace 471 (Financials for Non-Majors)
  - d) Comm 101 (The Mass Media)
  - e) Comm 102 (Media Processes and Effects)
  - f) Comm 351 (Understanding Media Industries)
  - g) Comm 371 (Media, Culture, and Society)
  - h) Comm 454 (Media Economics)
  - i) Comm 462 (Designing Persuasive Communication)
  - j) Comm 463 (Computer Mediated Communication)
  - k) Comm 466 (Internet, Society and the Law)
  - l) Econ 101 (Introduction to Economics I)
  - m) Econ 102 (Introduction to Economics II)
  - n) MKT 300 (Marketing Management)
  - o) MKT 301 (Marketing Management II)
  - p) MKT 310 (Fundamentals of Sale Management)
  - q) Orgstudy 215 (Organization and Society)
  - r) Orgstudy 305 (Inside Organizations)
  - s) Orgstudy 310 (Formal Organizations and Environments)
  - t) Orgstudy 395 (Current Issues in Organizational Studies)
  - u) Orgstudy 495 (Special Topics other than Non-Profit Organizations)
  - v) Psych 260 (Introduction to Organizational Psychology)
  - w) RCHUMS 334 (Topics in Humanities: Community Empowerment through the Arts)
  - x) Stats 250 (Introduction to Statistical Data Analysis)

y) SW 300: Leadership in the Nonprofit Sector

\*Production practica are not eligible courses for the minor; no more than one course fulfilling a requirement in the PAM minor may be simultaneously be counted to cover another degree requirement; AP credits may not be used to satisfy minor requirements.

# Naval Architecture and Marine Engineering (College of Engineering)

## Naval Engineering (Minor)

The primary goal of the Naval Engineering Minor is to provide a coherent path to employment in the marine industry and exposure to research opportunities in the marine industry for those students not majoring in Naval Architecture and Marine Engineering. The secondary goal is to increase awareness of the marine industry and its needs within the University of Michigan as a whole.

The marine industry, including the shipping and offshore industries, the United States Navy and the United States Coast Guard require professionals from a wide range of disciplines, including engineering and other STEM disciplines, in addition to naval architects and marine engineers. The scale and harshness of the marine environment poses particular challenges not found in the usual course of engineering practice, and graduates with knowledge of these marine challenges will be better prepared to meet these challenges.

### Minor Requirements

A minor in Naval Engineering gives students who don't want to major in NAME a coherent path to work in the marine industry and builds bridges between NAME and other engineering disciplines. To declare a Naval Engineering minor, contact undergraduate advisor Warren Noone ([nooner@umich.edu](mailto:nooner@umich.edu)) or stop by 221 NAME Building.

### Requirements

#### To Be Admitted:

- You must be in good academic standing (cumulative GPA > 2.0)
- Pre-requisite Coursework (16 Credits)
  - Math 115 (4)
  - Math 116 (4)
  - Physics 140 (4)
  - Physics 240 (4)

### Minor Coursework

The Minor itself requires a minimum of 16 credits in the following areas:

#### Two Initial Design/Operation Courses (7 credits)

- NavArch 270 – Introduction to Marine Design (4) <and either>
- NavSci 201 (NavArch 102) – Introduction to Ship Systems (3) <or>
- NavArch 260 – Marine Systems Manufacturing (2)

A minimum of seven (7) credits from the [Approved Elective Course List](#)

\*\* Note – Other courses not on the list can be approved by NAME Program Adviser

**Capstone Course/Project (3 credits – Choose one)**

- NavArch 471 –Advanced Ship Design
- NavArch 490– Directed Study
- Approved [NEEC](#) project experience

# Near Eastern Studies

## Early Christian Studies (Minor)

The minor in Early Christian Studies provides students with the opportunity of gaining fundamental knowledge of early Christianity in its Near Eastern and Classical contexts, through the study of lower and upper level language and humanities courses in the Near Eastern Studies and Classical Studies Departments.

*Effective Fall 2015*

### Exclusions:

*Students can both major and minor in Near Eastern Studies if different languages are used toward each.*

### Advising

Students interested in the minor in Early Christian Studies should develop a specific plan for its completion in consultation with a department advisor. Appointments are scheduled online via a calendar available on the [department website](#).

### Prerequisites

1. NEAREAST 236 / RELIGION 236: Introduction to the New Testament
2. Three terms of classical or Koine Greek

### Requirements

#### Minimum Credits: 16

1. At least one broad introductory course in the fundamentals of early Christianity (NEAREAST 238: The Historical Jesus in Christianity, Judaism, and Islam);
  - in early Christianity in its Near Eastern context (NEAREAST 200: Introduction to World Religions: Near Eastern Religions);
  - or*
  - in early Christianity in its Mediterranean context (HISTORY 201: The Roman Empire and its Legacy). *4 credits minimum*
2. At least two upper-level courses in the literature of early Christianity in the original Greek (GREEK 307, 308, 427, 428, 429 and courses currently under development). *6 credits minimum*
3. At least two upper level (300-400 level) courses in early Christianity and its Mediterranean roots.
  - NEAREAST 335, 336, 437
  - CLARCH 442
  - CLCIV 456, 466, 476, 483
  - HISTORY 307, 405
  - HISTART 442
  - RELIGION 350, 359, 468, 476, 488

*6 credits minimum*

## Near Eastern Languages and Cultures (Minor)

The minor in Near Eastern Languages and Cultures provides students with the opportunity of gaining fundamental knowledge of Near East civilizations, through the study of lower and upper level language and humanities courses in such areas as ancient civilizations and Biblical studies, Arabic, Armenian, Persian, Turkish, and Islamic studies, and Hebrew and Jewish cultural studies.

*Effective Fall 2017*

### Exclusions:

*Students can both major and minor in Near Eastern Studies if different languages are used toward each.*

### Advising

Students interested in declaring a Near Eastern Studies major or minor should plan to meet with an advisor before doing so to create a comprehensive and cohesive plan of study. Appointments are scheduled through an online calendar available on the [department website](#).

### Prerequisites

1. NEAREAST 200: Introduction to the Middle East.
2. First three terms of a Near Eastern language: Akkadian and Sumerian, Classical Hebrew, Middle Egyptian, Arabic, Armenian, Persian, Turkish, or Modern Hebrew

### Requirements

#### Minimum Credits: 16

At least 16 credits of courses to be chosen from the following categories:

1. **Language course:** Fourth term of the Near Eastern language chosen for the prerequisite.
2. **Culture/Society courses:** at least three courses in the same cultural studies area as the language chosen for the prerequisite (i.e. if Modern Hebrew is chosen, a student should take courses focused on either Hebrew or Jewish studies). One course must be at the 400- or 500-level.

Because of the great variety of areas of study in the department, and the diversity of its curriculum, there is no pre-set sequence. Each student determines his or her course work in consultation with a department advisor at the beginning of the program. Student progress will be regularly monitored by a department advisor.

## Near Eastern Studies (Major)

The major in Near Eastern Studies offers both a curriculum exclusively focused on language study taught in the target language and a curriculum exclusively focused on cultural studies taught in English. This structure ensures that students form a linguistic and cultural foundation while also encountering higher-level concepts and theories. It allows students the flexibility to create a program that accommodates their personal interests as well as academic needs.



Submajors:

- Ancient Near Eastern Studies
- Arabic Studies
- Armenian Studies
- Hebrew Studies
- Persian Studies
- Turkish Studies

Disciplinary Requirement

- Cultural Studies
- History
- Linguistics
- Literature
- Religion

*Effective Fall 2017*

**Exclusions:**

*Students who elect Near Eastern Studies major may not also elect a major in Middle Eastern and North African Studies. Students who elect the Hebrew Studies submajor may not also elect a major in Judaic Studies. Students can both major and minor in Near Eastern Studies if different languages are used toward each.*

**Advising**

Students interested in declaring a Near Eastern Studies major or minor should plan to meet with an advisor before doing so to create a comprehensive and cohesive plan of study. Appointments are scheduled in the department office.

**Grade Policies**

No course will count toward the major unless the student receives a grade of C- or better.

**Prerequisites**

- NEAREAST 200: Introduction to the Middle East.
- Two terms or proven first-year proficiency (Placement test and/or successful completion of first-year coursework) in a language appropriate to the student's chosen subfield.

**Requirements****Minimum Credits: 26**

The major in Near Eastern Studies requires a minimum of 26 credits at the 200-level or above, with at least two courses (in the disciplinary and elective courses) at the 400-level or above. Students must choose both a submajor and a discipline, and complete the NES Major Language requirement with a submajor-appropriate selection.

**Submajor Requirement:** Students must declare one submajor: Ancient Near Eastern Studies, Arabic Studies, Armenian Studies, Hebrew Studies, Persian Studies, or Turkish Studies.

**Disciplinary Requirement:** At least three courses (and a minimum 10 credits), focused on a single discipline. At least two courses must be from the department of Near Eastern Studies. Disciplinary courses can

be chosen from a pre-approved list or, by exception, a course chosen in consultation with, and approved by, an NES department advisor.

**Near Eastern Studies Language Requirement for the Major:** At least two additional terms in the language appropriate to the submajor (A minimum of 6 credits).

Four terms or fourth-term proficiency appropriate to the selected submajor. Some of the submajors require fourth-term proficiency in a single language. Students are strongly encouraged to continue their language training beyond the four terms required. This is particularly important for students contemplating graduate studies. Students may test out of the Language Requirement for the NES Major by placement test (different procedures in different languages in place) but will be required to make up the credits toward the major by taking additional coursework in either the Disciplinary or Elective Requirements.

Select one of the following language choices that matches the submajor:

- *Arabic, Armenian, Persian, or Turkish Studies:* Two additional terms in the selected language.
- *Hebrew Studies:* Three additional terms of language. Students pursuing the Hebrew Studies submajor must take an additional term of Hebrew language instruction at the 300-level or above to complete the Language Requirement. Students also must include two upper division courses which are taught in Hebrew or require the reading of Hebrew texts in the Elective or Disciplinary requirements.
- *Ancient Near Eastern Studies:* Two additional terms of language beyond the prerequisite.

Students pursuing the Ancient Near Eastern Studies submajor may take two semesters of the same ancient language or of a different language (or one semester each of two languages) from that taken for the prerequisite to satisfy the NES Major Language Requirement for a total of four semesters of language.

Students may use up to three ancient languages toward the major (including the prerequisites), chosen from the following Ancient Languages: Akkadian, Aramaic, Coptic, Sumerian, Classical Hebrew, Classical Greek, Hittite, Ancient Egyptian, Syriac, or Ugaritic.)

**Electives:** At least three courses (and a minimum 10 credits), chosen from the disciplines not selected for the disciplinary requirement. At least two courses must be from the department of Near Eastern Studies. These courses may be in a single discipline or cross-disciplinary. Electives can be chosen from a pre-approved list or, by exception, a course chosen in consultation with, and approved by, an NES department advisor. Up to two courses may be 200 level or above in a second Near Eastern Studies language.

At least one course within either the Discipline or the Elective Requirement must be from the pre-modern period and at least one course within either the Discipline or the Elective Requirement must be modern.

**Constraints**

No more than 8 credits may be elected as Independent Study. No more than one course elected outside the department of Near Eastern Studies can be applied toward the Elective Requirement. No more than one course elected outside the department of Near Eastern Studies can be applied toward the Disciplinary Requirement.

**Residency**

A minimum of 14 of the required 26 credits for the major must be taken at the U-M Ann Arbor campus.

### **Honors**

The Honors plan is open to all students who maintain a cumulative grade point average of at least 3.4 and at least 3.5 in the courses elected as part of the major. Students must complete all regular requirements for the major as well as demonstrate the ability to do original work by writing an Honors thesis.

Applications for Honors are due to the department by the last day of class of the student's junior year. Students may discuss the application process at any time before then with an NES department advisor. Once approved, students enroll in a two-semester, variable credit sequence of independent study coursework to finish the Honors thesis. A recommendation for the designation of "Honors," "High Honors," "Highest Honors," or "No Honors" in Near Eastern Studies is determined on the successful completion of this coursework and on the quality of the student's Honors thesis.

Further information concerning the Honors plan can be obtained at the departmental office or the Honors Program Office (1330 Mason Hall).

# Undergraduate Program in Neuroscience

## Neuroscience (Major)

Neuroscience is an Interdepartmental Program administered jointly by the Department of Psychology and the Department of Molecular, Cellular, and Developmental Biology (MCDB).

Neuroscience (B.S.) may be elected as an interdepartmental major, supervised by the **Undergraduate Neuroscience Steering Committee**.

The overall goals of this major are to:

1. provide a course of study in the discipline of Neuroscience that integrates cell/molecular and behavioral components of the field; and
2. provide a course of study that better prepares students for graduate training in the field of Neuroscience than do the current majors in Cellular and Molecular Biology (CMB), Biology, or Biopsychology, Cognition, and Neuroscience (BCN).

An understanding of how the nervous system functions spans both molecular and cellular activity that is best taught by cell and molecular neurobiologists, and behavior that is best taught by psychologists. The well-trained student will receive instruction that allows her or him to understand the usefulness of genetics, cellular biology, and behavioral tests in this complex field. This degree will provide the cross-disciplinary training that will provide a head-start into postgraduate studies in Neuroscience.

*Effective Fall 2017*

### Exclusions:

*Students who elect a major in Neuroscience may not elect the following majors: Brain, Behavior, and Cognitive Sciences; Biopsychology, Cognition, and Neuroscience; Biomolecular Science; Biology; General Biology; Cell and Molecular Biology; Microbiology; Plant Biology; or Biochemistry. They may also not elect a minor in Biology; Plant Biology; Chemistry; or Biochemistry.*

### Advising

Students considering a neuroscience major are urged to meet with a Neuroscience major advisor during their first or second year at the University. It is not necessary to complete all the prerequisite courses before declaring a Neuroscience major, nor is it necessary to complete all the prerequisite courses before beginning to enroll in upper level courses required of the major

Students choosing Neuroscience as a field of the major develop an approved plan for the major with a department advisor who must approve the original plan for the major and any exceptions to the stated requirements for the major.

Students should also consult a department advisor when planning the final term's elections to ensure that all requirements for the major have been met and to secure an advisor's approval on a *Major Release* form.

To make an advising appointment, go to:  
<http://lsa.umich.edu/neurosci/undergraduates>

### Prerequisites

- BIOLOGY 171 and 172/174 and 173; or BIOLOGY 195 and 173; and,

- CHEM 210/211 and 215/216; and,
- STATS 250 or STATS 280; and,
- Quantitative Prerequisites – Two courses from the following:
  - Calculus I (MATH 115, 120, 185, or equivalent)
  - Calculus II (MATH 116, 121, 156, 176, 186, or equivalent)
  - Physics I (PHYSICS 125, 135, 140, 160, or equivalent)
  - Physics II (PHYSICS 126, 235, 240, 260, or equivalent)
  - EECS 183 (Elementary Programming Concepts)
  - Any STATS course that has STATS 250 as a prerequisite
  - [With the permission of an advisor, other courses that help students develop quantitative skills can be substituted.]

### Requirements

**Minimum Credits: 32**

### Core Requirements:

- Cellular & Molecular Neurosci.: BIOLOGY 222
- Introduction to Behavioral Neuroscience: PSYCH 230
- Human/Animal Physiology: BIOLOGY 225
- Genetics: BIOLOGY 305
- Biochemistry: one of MCDB 310, BIOLCHEM 415, or CHEM 351

**Group A. Molecular and Cellular Neuroscience Electives.** Choose one course from the following:

- MCDB 402, 403, 418, 421, 422, 426, 450, 453, 455, 456, 457, 459, or HUMGEN 480

**Group B. Behavioral & Cognitive Neuroscience Electives.** Choose two courses from the following:

- PSYCH 240, 330, 332, 333, 334, 336, 337, 340, 343, 345, 430, 431, 433, 434, 435, 440, 442
- PSYCH 532/ANATOMY 541/PHYSIOL 541
- NEUROL 455
- NEUROSCI 470

**Group C. Additional Elective:** Choose one additional course from Group A or B (above) or from Group C:

- BIOLOGY 205, 207;
- MCDB/EEB 397;
- MCDB 401, 405, 411, 417, 427, 428, 435, 436, 440, 441, 454, 462;
- EEB 492;

- PSYCH 335, 338, 346 (prior to W18), 414, 420 (3 credits only), 441, 447, 448;
- BIOLCHEM 640

For more information, including the Honors Program Application, please visit: <http://lsa.umich.edu/neurosci/undergraduates/honors-program.html>

**Group D. Lab Requirement:** Choose at least two courses for a minimum of four credits total:

1. *Method-Based Laboratory courses:* Choose at least one course from: BIOLOGY 226; MCDB 306, 419, 423, 424, 429; PSYCH 302, 331
2. *Research-Based Laboratory Courses:* Choose an additional course from Group D-1 (above) or Group D-2: MCDB 300, 400; PSYCH 326, 422, 424, 426, 428

#### Constraints

- Student double majoring in Psychology and Neuroscience or Cognitive Science and Neuroscience may share a maximum of 3 courses toward their two programs.
- Each course must be taken for a minimum of two credits each and be completed in a single academic term.
- Only three credits of independent study may count toward the major.

#### Other Department Policies

Neuroscience majors may NOT use any BS/NS Psychology or introductory Biology courses toward their College Area Distribution requirement.

#### Honors

*Effective Winter 2014*

The Neuroscience B.S. degree is the basis for the Honors degree in Neuroscience. Students must elect two terms of independent research (under PSYCH 424 & 426, MCDB 300, or MCDB 400), maintain an overall and GPA in the major of 3.4, complete an Honors thesis and give a research presentation based on their Honors work.

Prior to applying to the Neuroscience Honors Program students must identify a research mentor from the approved Neuroscience Honors Thesis Sponsor/Co-Sponsor Faculty list. Students may conduct Honors research with faculty in other units on the University of Michigan campus who are not on this list, but must have a formal co-sponsor relationship with a faculty member who is on the approved list.

Students apply to the Honors Program in Neuroscience by submitting a Neuroscience Honors Application with a research proposal. Neuroscience Honors applications are due by no later than the end of the add/drop period one semester prior to graduation (i.e., approximately September 25 for students graduating at the end of Winter term, and approximately January 25 for students graduating at the end of the Fall term or Summer term). When special circumstances apply, the honors committee may accept an application beyond the normal due date. Upon approval by the chair of the Neuroscience Steering Committee students are declared into the Honors plan. Honors theses must be submitted by December 1, April 1, or August 1 of the term of graduation.

Written evaluations of the Honors thesis must be submitted by the mentor and up to two faculty readers. Honors theses must be submitted no later than one calendar month prior to the date of graduation.

# Organizational Studies

## Organizational Studies (Major)

Organizational Studies is an interdisciplinary concentration program, emphasizing the influence of economic, psychological, sociological, political, and other factors on individuals and complex organizational systems. The field is concerned with how organizational systems function, their effects on individuals and the larger society, and with the processes of organizational change.

The curriculum is designed to provide:

1. core courses focusing on concepts fundamental to organizational theory and research;
2. cluster and elective courses to provide breadth and depth in understanding links between the individual and organizations on the one hand, and organizations and society on the other; and
3. courses designed to provide field-based experience in organizational research, analysis and practice.

The concentration is also designed to balance the study of challenging theoretical issues with diverse and refined methods of empirical inquiry.

Students may find this concentration appropriate preparation for careers or graduate work in business administration, consulting, communication, education, human resources, industrial and organizational psychology, public health, public policy, social and non-profit administration, the sociology of work and organizations, and related fields.

Effective Fall 2014

### Advising

Appointments may be scheduled with the department advisor, or the prospective student advisor via our online web scheduling system. See our homepage [www.lsa.umich.edu/orgstudies](http://www.lsa.umich.edu/orgstudies)

### Prerequisites

Students must complete one course in each of the following three areas:

1. Introduction to Economics (ECON 101)
2. Introduction to Psychology (PSYCH 111, 112, 114, or 115)
3. Introduction to Sociology (SOC 100, 101, 102, or 195).

All students should be aware that additional prerequisites are required for many of the upper-level courses in the OS curriculum. Depending on their particular area of interest, students may wish to complete additional entry-level courses in political science, communication studies, women's studies, and/or economics as they prepare to apply to the OS Program.

**Application.** Students must apply for and be accepted into the major. **Students are declared into the major by the department advisor only.**

Application for the major can be submitted during the sophomore year. It is preferred that applicants have all three prerequisites completed at the time of application. At a minimum, to be eligible to apply, you must have completed (with final grades showing) at least two of the three

prerequisite courses, and be currently enrolled in the third. Admission is very competitive and enrollment in the major will be limited to assure a high quality educational experience. Program faculty will make admission decisions based on a holistic review, with consideration given to overall grade point average at the time of application, with special attention given to grades in the three prerequisite courses, resume, and a personal statement written by the applicant.

### Requirements

#### Minimum Credits: 34

1. **Core requirements.** Two courses are required [6 credits]:
  - ORGSTUDY 305: Inside Organizations
  - ORGSTUDY 310: Formal Organizations and Environments
2. **Senior Capstone Research Requirement.** ORGSTUDY 410 (or ORGSTUDY 497&498 for Honors majors).
3. **Cluster Requirements.** 7 courses (21 credits minimum), chosen from Clusters A, B, and C:
  - Two courses must be from Cluster A, two from Cluster B, and the remaining three in any cluster (A,B, or C)
  - Two of the cluster courses must be ORGSTUDY courses.
  - No more than 2 cluster courses can be at the 200-level

The cluster requirements are designed to provide disciplinary variety in the study of organizations, drawing on courses in a number of fields, and ranging across multiple levels of organizational analysis.

4. **Organizations and Individuals (Cluster A) [2 course minimum].** Cluster A courses focus mainly on questions and topics concerning the organized behavior of individuals or the behavior of individuals in organizations. These courses may address the relations of individuals to larger structures such as the family or formal organizations, but their concern with the larger structures will typically remain the impact thereof on *individual* psychology or *individual* behavior.

A complete list of acceptable Cluster A courses is available on the [Organizational Studies website](#).

5. **Organizations and Society (Cluster B) [2 course minimum].** Cluster B courses are those that focus mainly on questions and topics concerning the organization of social groups (*e.g.*, ethnic groups), historical processes (*e.g.*, the rise of capitalism), and/or medium to large social structures (*e.g.*, corporations, national governments, or global governing bodies). Although they may at times address the impact of such larger social structures and processes on individual behavior or may include attention to particular individuals from U.S. or world history, the primary concern of Cluster B courses is with questions about how social groups, historical processes, and social structures emerge, remain stable, and/or change.

A complete list of acceptable Cluster B courses is available on the [Organizational Studies website](#).

6. **Interest Cluster Courses (Cluster C)** [minimum of 9 credits]. Cluster C courses are electives intended to allow majors to pursue their curriculum pathway interests in a more specialized way. These should have an organizational theme and can be of either the micro or macro variety, but are almost always more narrow and focused in their content.

A complete list of acceptable Cluster C courses is available on the [Organizational Studies website](#).

Courses taken as ORGSTUDY 395: *Current Issues in Organizational Studies*, ORGSTUDY 490: *Advanced Research Team*, and ORGSTUDY 495: *Special Topics* may be included, when appropriate and in consultation with the department advisor, as a course in Cluster A, Cluster B, or Cluster C.

4. **Quantitative Skills Requirements** [3 credit minimum]. One course from the following:
  - SOC 210
  - STATS 250, 280, 400, or 405
  - ECON 404 or 405.
5. **Electives** (as needed). Students may choose electives from any requirement area on the OS curriculum list as needed to reach the overall 34 credit requirement for the OS major.

Additional courses may on occasion be used as part of the plan for the major with written approval from the department advisor.

#### Constraints

No more than six credits of upper-level independent study / experiential credit may count toward the major. ORGSTUDY 499 does not automatically count toward the major, but may be petitioned in individual cases.

#### Honors

*Effective Fall 2014*

The Organizational Studies Honors Plan (OSHC) is designed to enable advanced undergraduate students to gain experience in the design, conduct, and analysis of research on organizations and organizational behavior. In the program, the Honors student will collaborate directly with a faculty mentor to complete an original research project. For students with strong academic records and an interest in research, the Honors program can serve as a capstone for undergraduate studies, and as important preparation for graduate studies or other future endeavors.

The Organizational Studies Honors Plan is focused solely on research skills and activities, and interested students should be certain that they have a serious interest in academic research and the capability and desire to complete a prolonged independent study project culminating in a major empirical research paper.

**Formal Application to the OS Honors Plan.** To qualify for the Honors plan, students must have a cumulative GPA of 3.5 or higher, and must maintain it through graduation. To apply to the OSHC, an application including a project proposal that has been approved by the faculty mentor must be submitted. **Deadline for submitting OS Honors Plan application:** First Friday in March of the junior year. If admitted, the student will enroll in the OS Senior Honors Research sequence in the senior year (ORGSTUDY 497 & 498). These are independent study courses in which the student will work on research and a thesis with a

faculty mentor, and together may replace ORGSTUDY 410 to fulfill the senior research capstone requirement.

**Program Completion.** The Honors student must submit the final thesis to the faculty mentor by the first Friday in March of their senior year, and also must present the findings at the OS Honors Symposium in early April.

Each thesis is evaluated by a faculty panel consisting of three readers: the faculty mentor, an independent faculty reader, and the OS Honors coordinator. The readers will complete their evaluation of the thesis by the end of classes. To receive an Honors designation on the college degree, the faculty readers must approve the thesis, and the Honors student must have a cumulative GPA of at least 3.40 at graduation.

Students interested in the Organizational Studies Honors Plan may obtain further information on the OS website.

# Philosophy

Philosophy is the systematic study of questions any thoughtful human being faces concerning the nature of knowledge, reality, thought, and value. What is valuable and what is value? What gives thought and language meaning? What is truth, and how can we know it? The main value of philosophy lies in its contribution to a liberal arts education. It can, however, also provide excellent preparation for a wide variety of professions (notably, law), because of the training it provides in rigorous thinking and incisive and clear writing. Philosophy cuts across other academic disciplines by examining their concepts, methods, and presuppositions. So a concentration or academic minor in Philosophy can also be a superb complement to a concentration in another field. Further details are available on the department's web page [www.lsa.umich.edu/philosophy](http://www.lsa.umich.edu/philosophy).

The Philosophy Academic Minors are designed to provide students with an education in philosophy that will complement a major in some other discipline and that will, among other things, illuminate philosophical issues that arise in that other discipline. Because students who elect a minor in philosophy will have a variety of philosophical interests, the department offers a choice of a number of distinct minors namely:

- a) General Philosophy;
- b) History of Philosophy;
- c) Moral and Political Philosophy;
- d) Mind and Meaning; and
- e) Epistemology and Philosophy of Science.

The specialized minors (b)-(e) focus on particular areas within philosophy, and complement several different majors.

## ***Epistemology and Philosophy of Science (Minor)***

The minor in *Epistemology and Philosophy of Science* is designed to provide a basic familiarity with the philosophical problems and techniques in these fields. The minor offers an opportunity for students to develop basic skills of philosophical reflection and argument in the context of questions about ordinary as well as scientific knowledge. The intended audience for this minor includes students concentrating in scientific or mathematical disciplines who wish to explore the philosophical aspects of their subject, as well as students who have a more general interest in theory of knowledge or philosophy of science including, for example, students of literature, history, anthropology, or sociology — who wish to acquire the necessary background to understand recent debates relating to the sociology of knowledge.

*Effective Fall 2012*

### **Exclusions:**

*A minor in Philosophy is not open to students with a major in Philosophy.*

### **Advising**

Students wishing to pursue a minor in Philosophy must develop a specific plan for its completion in consultation with the department's designated advisor. Appointments are scheduled through the on-line scheduling system available on the department's web

page: <http://lsa.umich.edu/philosophy/undergraduates/advisor-appointments.html>

### **Grade Policies**

No course will count toward the minor unless the student receives a grade of C- or better.

### **Prerequisites**

Any 100- or 200-level course other than PHIL 180, 201, 296 (logic courses).

### **Requirements**

**Minimum Credits:** 15

### **COMMON REQUIREMENTS FOR ALL PHILOSOPHY ACADEMIC MINORS:**

1. **At least one course at the 400-level**, other than formal methods (PHIL 413, 414)
2. **A minimum of 15 credits of Philosophy**, at least 9 of which (including the required 400-level course) must be taken in residence.
3. No course will count toward the minor unless the student receives a grade of C- or better.

### **SPECIFIC REQUIREMENTS FOR EPISTEMOLOGY AND PHILOSOPHY OF SCIENCE:**

1. One course in Formal Methods: PHIL 296, 303, 305, 413, or 414
2. PHIL 345, 381, or 383
3. Two other courses from: PHIL 320, 322, 381, 383, 420, 422, 423, 424, 425, 427, 443, 477. At least one course taken to satisfy the minor must be at the 400-level, other than formal methods (PHIL 413, 414)

### **Residency**

At least nine credits, including the required 400-level course, must be taken in residence.

## ***General Philosophy (Minor)***

The *General Philosophy minor* aims to provide students basic philosophical skills and training, exposure to rigorous core courses, and some advanced work but does not aim for the breadth and comprehensiveness of the major or for depth in any particular area.

*Effective Fall 2012*

### **Exclusions:**

*A minor in Philosophy is not open to students with a major in Philosophy.*

### **Advising**

Students wishing to pursue a minor in Philosophy must develop a specific plan for its completion in consultation with the department's designated advisor. Appointments are scheduled through the on-line scheduling system available on the department's web page: [/lsa.umich.edu/philosophy/undergraduates/advisor-appointments.html](http://lsa.umich.edu/philosophy/undergraduates/advisor-appointments.html)

**Grade Policies**

No course will count toward the minor unless the student receives a grade of C- or better.

**Prerequisites**

Any 100- or 200-level course other than PHIL 180, 201, 296 (logic courses).

**Requirements**

**Minimum Credits:** 15

**COMMON REQUIREMENTS FOR ALL PHILOSOPHY ACADEMIC MINORS:**

1. **At least one course at the 400-level**, other than formal methods (PHIL 413, 414)
2. **A minimum of 15 credits of Philosophy**, at least 9 of which (including the required 400-level course) must be taken in residence.
3. No course will count toward the minor unless the student receives a grade of C- or better.

**SPECIFIC REQUIREMENTS FOR General Philosophy:**

1. One course in Logic or Formal Methods (PHIL 180, 201, 296, 303, 305, 413, or 414)
2. Two courses from: PHIL 345, 361, 365, 366, 367, 381, 383, 388, 389
3. One 400-level course, which must not include 401, 402, 413, 414, or 455

**Residency**

At least nine credits, including the required 400-level course, must be taken in residence.

## ***History of Philosophy (Minor)***

The *History of Philosophy minor* aims to provide students both a comprehensive foundation in the central evaluative and theoretical philosophical areas, which are required in order to best appreciate the history of philosophy, and broad study of the history of philosophy. It is aimed at students with serious interests in the history of philosophy, or in studying philosophy from a historical perspective, but who, for various reasons, are unable to concentrate in philosophy. This minor will enable them to develop their interests in a way that assured they had sufficient background in the main philosophical areas, as well as significant breadth and depth in the history of philosophy.

*Effective Fall 2012*

**Exclusions:**

*A minor in Philosophy is not open to students with a major in Philosophy.*

**Advising**

Students wishing to pursue a minor in Philosophy must develop a specific plan for its completion in consultation with the department's designated advisor. Appointments are scheduled through the on-line scheduling system available on the department's web page: <http://lsa.umich.edu/philosophy/undergraduates/advisor-appointments.html>

**Grade Policies**

No course will count toward the minor unless the student receives a grade of C- or better.

**Prerequisites**

Any 100- or 200-level course other than PHIL 180, 201, 296 (logic courses).

**Requirements**

**Minimum Credits:** 15

**COMMON REQUIREMENTS FOR ALL PHILOSOPHY ACADEMIC MINORS:**

1. **At least one course at the 400-level**, other than formal methods (PHIL 413, 414)
2. **A minimum of 15 credits of Philosophy**, at least 9 of which (including the required 400-level course) must be taken in residence.
3. No course will count toward the minor unless the student receives a grade of C- or better.

**SPECIFIC REQUIREMENTS FOR HISTORY OF PHILOSOPHY (Effective Fall 2012):**

1. Either PHIL 345, 361, 366, 367 or 383
2. PHIL 388 or 389
3. One additional course from: PHIL 388, 389, 405, 406, 458, 460, 461, 462, 464
4. One additional course from "iii" expanded to include: PHIL 371, 385, 433, 463, 466, 467, 474, 492

**Residency**

At least nine credits, including the required 400-level course, must be taken in residence.

## ***Mind and Meaning (Minor)***

Fundamental issues of metaphysics, epistemology, and the philosophies of language and mind arise in connection with many majors, such as Psychology, Linguistics, and the sciences. The *Mind and Meaning minor* will provide students who cannot concentrate in Philosophy a systematic way to pursue and develop these interest. It aims to give students a basic foundation in philosophy, logical skills necessary to do serious study in the areas of metaphysics, epistemology, philosophy of language and philosophy of mind, and rigorous exposure and advanced-level work in some subset of these areas.

*Effective Fall 2012*

**Exclusions:**

*A minor in Philosophy is not open to students with a major in Philosophy.*

**Advising**

Students wishing to pursue a minor in Philosophy must develop a specific plan for its completion in consultation with the department's designated advisor. Appointments are scheduled through the on-line scheduling system available on the department's web page: [www.lsa.umich.edu/philosophy/undergraduate/advisorappointments](http://www.lsa.umich.edu/philosophy/undergraduate/advisorappointments)

**Grade Policies**



No course will count toward the minor unless the student receives a grade of C- or better.

#### Prerequisites

Any 100- or 200-level course other than PHIL 180, 201, 296 (logic courses).

#### Requirements

**Minimum Credits:** 15

#### COMMON REQUIREMENTS FOR ALL PHILOSOPHY ACADEMIC MINORS:

1. **At least one course at the 400-level**, other than formal methods (PHIL 413, 414)
2. **A minimum of 15 credits of Philosophy**, at least 9 of which (including the required 400-level course) must be taken in residence.
3. No course will count toward the minor unless the student receives a grade of C- or better.

#### SPECIFIC REQUIREMENTS FOR Mind and Meaning:

1. One course in symbolic logic: PHIL 296, 303, 305, 413, or 414
2. PHIL 345, 381, or 383
3. Two additional courses from: PHIL 340, 345, 381, 383, 409, 450, 481, 482 (one of which must be at the 400-level).

#### Residency

At least nine credits, including the required 400-level course, must be taken in residence.

## Moral and Political Philosophy (Minor)

The *Moral and Political Philosophy minor* aims to give students a basic foundation in general philosophy, core systematic training in either moral or political philosophy, along with broad study across a range of areas in moral and political philosophy and intensive advanced-level work. It should appeal to students who want to study moral and political philosophy in conjunction with other majors, for example, Political Science, Sociology, and Economics, or want to study the subject for pre-professional reasons (e.g., because they are interested in ethical issues concerning medicine or the law).

*Effective Fall 2012*

#### Exclusions:

*A minor in Philosophy is not open to students with a major in Philosophy.*

#### Advising

Students wishing to pursue a minor in Philosophy must develop a specific plan for its completion in consultation with the department's designated advisor. Appointments are scheduled through the on-line scheduling system available on the department's web page: [www.lsa.umich.edu/philosophy/undergraduate/advisorappointments](http://www.lsa.umich.edu/philosophy/undergraduate/advisorappointments)

#### Grade Policies

No course will count toward the minor unless the student receives a grade of C- or better.

#### Prerequisites

Any 100- or 200-level course other than PHIL 180, 201, 296 (logic courses).

#### Requirements

**Minimum Credits:** 15

#### COMMON REQUIREMENTS FOR ALL PHILOSOPHY ACADEMIC MINORS:

1. **At least one course at the 400-level**, other than formal methods (PHIL 413, 414)
2. **A minimum of 15 credits of Philosophy**, at least 9 of which (including the required 400-level course) must be taken in residence.
3. No course will count toward the minor unless the student receives a grade of C- or better.

#### SPECIFIC REQUIREMENTS FOR Moral and Political Philosophy:

1. One of PHIL 361 or 366 or 367 or PPE 300
2. Three additional courses from: PHIL 355, 356, 359, 361, 366, 369, 385, 429, 430, 431, 433, 442, 443, 485 (one of which must be at the 400-level)

#### Residency

At least nine credits, including the required 400-level course, must be taken in residence.

## Philosophy (Major)

*Effective Winter 2012*

#### Advising

Prospective majors, especially students contemplating graduate work in philosophy, should consult a department advisor as early as possible in order to work out an appropriate, unified program. Appointments are scheduled through the on-line scheduling system available on the department's web page: [www.lsa.umich.edu/philosophy/undergraduate/advisorappointments](http://www.lsa.umich.edu/philosophy/undergraduate/advisorappointments).

#### Grade Policies

No course will count toward the major unless the student receives a grade of C- or better.

#### Prerequisites

Any 100- or 200-level course other than PHIL 180, 201, 296 (logic courses). None of these courses counts toward the requirements for the major.

#### Requirements

**Minimum Credits:** 25

Majors must take at least 25 credits of Philosophy.

In fulfilling the credit requirement students must also satisfy the following distribution requirements:

1. *Formal Methods*: PHIL 296, 303, 305, 413, or 414
2. *History of Philosophy*: Two courses from among: PHIL 388 or 389; and one additional course from among: PHIL 371, 388, 389, 405, 406, 458, 460, 461, 462, 463, 464, 467, and 492

3. *Value*: One of PHIL 361: Ethics or 366: Political Philosophy or 367: Social and Political Philosophy or PPE 300: Introduction to Political Economy
4. *Mind and Reality*: Either PHIL 345: Language and Mind or 381: Science and Objectivity or 383: Knowledge and Reality
5. Three additional courses:
  1. Two additional 400-level courses (other than PHIL 419, 455, 498, or 499). Note: students are not permitted to use any course to satisfy more than one requirement. For example, if you use a 400-level course to satisfy the logic or history requirements, you cannot use that same course to satisfy this requirement.
  2. One additional course at the 300-level or higher, such as PHIL 345: Language and Mind or 383: Knowledge and Reality

The courses needed to satisfy these requirements are not always offered every term. Majors should plan their programs so that they can be sure to take the courses they need before they can graduate.

### Residency

At least 16 credits, including requirement 5.1, must be taken in residence.

### Honors

Qualified students who are interested in an Honors major in Philosophy should consult a department advisor as early as possible. Except in cases where special permission is granted, students must have a cumulative grade point average of at least 3.4 and a 3.5 average in completed courses in philosophy in order to be eligible for admission. Honors majors are required to complete 28 (rather than 25) credits in the major, including PHIL 401 and 498 or 499, which is taken in the senior year. Before enrolling in PHIL 498 or 499, students must submit a thesis proposal for the department's approval. Only students who have written an Honors thesis will be considered for graduation with Honors degrees. Students are admitted to the Honors major at the beginning of the junior year (or later) by permission of the Honors department advisor.

## Philosophy, Politics, and Economics (Major)

The Department of Philosophy, in conjunction with the Department of Economics and the Department of Political Science, offers PPE as an interdisciplinary major program in political economy. The program will stress analytic rigor and critical reasoning, and is unique in combining normative inquiry, empirical methods, and formal tools of analysis. It integrates the study of the relationships of government, political processes, property, production, markets, trade, and distribution from the standpoint of assessing these arrangements with respect to the interests and progress of humanity. The following features are characteristic of research in political economy:

- Exploration of the relations between individual action and collective outcomes as they shape and are shaped by environmental conditions, institutions, social norms, ideologies, and strategic and communicative interaction

- Special attention to the consequences of these relations for politics (voting, political parties, lobbying, elections, social movements, revolution, civil war, state failure, oligarchy, dictatorship, corruption, *etc.*), law and economic policies (taxation, regulation, property and trade regimes, macroeconomic management, *etc.*), aggregate economic outcomes (business cycles; the provision, degradation, or maintenance of public goods, *etc.*), and justice and human welfare (poverty, inequality, intergroup relations, freedom, *etc.*)
- Formal methods of analysis including decision theory, game theory, evolutionary game theory, behavioral economics, and agent-based modeling; the use of analytic frameworks (such as principal-agent problems and positional competition) to understand characteristic problems that arise for human beings across disparate domains of action
- Critical reflection on the uses and limits of these methods and frameworks in light of empirical information and interpretations drawn from other disciplines, including history, psychology, and sociology, as well as normative and conceptual analysis
- Integration of formal, empirical, interpretive, and normative inquiry to evaluate and design existing and alternative economic systems, constitutions, smaller-scale institutions, organizations, and social norms with a view toward improving their justice and service to human welfare.

The PPE major provides Michigan undergraduates with a rigorous, integrated, and interdisciplinary program of study that brings together three major approaches to understanding human beings and their social and political interactions. Core courses will expose students to a wide range of analytical tools and research methods in the social sciences, and will seek to foster the critical reasoning and rhetorical skills that are essential for philosophical writing and argumentation.

*Effective Winter 2017*

### Advising

PPE is governed by the director of PPE and a PPE committee composed of one faculty member from each of Philosophy, Economics, and Political Science. It is administered by the Philosophy Department. PPE advising is managed by the Undergraduate Studies Committee in Philosophy. Appointments with a department advisor may be scheduled online at: [https://webapps.lsa.umich.edu/advappts/AA\\_StuSelfSvc1.aspx?ctgy=PHIL](https://webapps.lsa.umich.edu/advappts/AA_StuSelfSvc1.aspx?ctgy=PHIL).

### Grade Policies

Admission to PPE is conditional on earning C- or better in all prerequisites. No course will count toward the major unless the student receives a grade of C— or better.

### Prerequisites

1. one 100- or 200-level PHIL course other than PHIL 180, 201, 296 (logic)
2. one introduction to political science: POLSCI 101 or 111 or 140 or 160
3. ECON 101 and ECON 102

4. One course in calculus (MATH 115, 116, 121, 156, 175, 176, 185, 186, 215, 295, or 296).

### Application

Students must apply for and be accepted into the major. **Students are declared into the major by a department advisor only.**

Due to the rigorous and interdisciplinary nature of its subject matter, and to ensure a high quality educational experience, the PPE program will be selective (as it is in many other PPE programs in the U.S.) and require an application. Applications are considered once each Fall and Winter academic terms. Application deadlines will be announced on the PPE website. Students may apply for admission to the major as early as the winter term of their second year. Second-year applicants must have completed (with final grades showing) at least the prerequisites to the major, and should be enrolled in, or have completed, at least one further course that can be counted toward the major. Students who apply in the fall of their junior year must have completed the prerequisites and be enrolled in, or have completed, at least two further courses that can be counted toward the major. Admissions will be based on the grade point average in the prerequisite courses and other courses satisfying PPE requirements, overall grade point average, and a brief personal statement. Admission to PPE is conditional on earning C- or better in all prerequisites.

### Requirements

#### Minimum Credits: 33

The major consists of 12 courses. Courses must be distributed as follows:

#### 1. PPE Core Courses:

1. *Economics*: ECON 401: Intermediate Microeconomics
2. *Gateway*: PPE 300: Introduction to Political Economy
3. *Capstone*: PPE 400: Senior Seminar in Political Economy (Honors students take PPE 401-2 instead)

#### 2. Core Distribution Requirements

PPE integrates normative inquiry and formal analytical tools with the substantive study of politics and economics. The PPE major therefore requires two courses each in normative theory, political economy, and formal methods.

1. *Formal Reasoning*: one course in statistics and one additional course in statistics, logic, decision theory, or game theory from the list below.

1. One course in statistics. Choose from among:

- ECON 404: Statistics for Economists
- ECON 405: Introduction to Statistics
- POLSCI 300: Quantitative Empirical Methods of Political Science
- STATS 250: Introduction to Statistics and Data Analysis

- STATS 280: Honors Introduction to Statistics and Data Analysis
- STATS 426: Introduction to Theoretical Statistics

2. A course in other formal methods central to political economy – statistics, logic, decision theory, or game theory from the following:

- ECON 398: Strategy
- ECON 409: Game Theory
- PHIL 296: Honors Introduction to Logic
- PHIL 303: Introduction to Symbolic Logic
- PHIL 305: Introduction to Formal Philosophical Methods
- PHIL 413: Formal Philosophical Methods
- PHIL 414: Mathematical Logic
- PHIL 443: Foundations of Rational Choice Theory
- PHIL 444: Groups and Choices
- POLSCI 381: Political Science Research Design
- POLSCI 391 / CMLXSYS 391: Introduction to Modeling Political Processes
- POLSCI 488: Political Dynamics
- POLSCI 490: Game Theory and Formal Models
- POLSCI 499: Quantitative Methods of Political Analysis
- CMLXSYS 391 / POLSCI 391: Introduction to Modeling Political Processes
- MATH 425 / STATS 425: Introduction to Probability
- STATS 425 / MATH 425: Introduction to Probability

2. *Normative Theory*: two 300- or 400- level courses in political philosophy, political theory, or welfare economics from the list below. One philosophy course must be taken to satisfy either the normative theory requirement or one of the three required theme courses.

- ECON 408 / PHIL 408: Philosophy and Economics
- ECON 496: History of Economic Thought
- PHIL 359: Law and Philosophy

- PHIL 361: Ethics
  - PHIL 366: Introduction to Political Philosophy
  - PHIL 367: 19th Century Social and Political Philosophy
  - PHIL 369: Philosophy of Law
  - PHIL 384: Applied Epistemology: Race, Ethnicity & Knowledge
  - PHIL 408 / ECON 408: Philosophy and Economics
  - PHIL 430: Topics in Ethics
  - PHIL 431: Normative Ethics
  - PHIL 433: History of Ethics
  - PHIL 441: Social Philosophy
  - PHIL 442: Topics in Political Philosophy
  - PHIL 445: Philosophy of Law
  - PHIL 446: Social and Political Philosophy of Language
  - POLSCI 301: Development of Political Thought: To Modern Period
  - POLSCI 302: Development of Political Thought: Modern and Recent
  - POLSCI 306: American Political Thought
  - POLSCI 400: Selected Topics in Political Theory (*appropriate sections*)
  - POLSCI 401 / WOMENSTD 422: Feminist Political Theory
  - POLSCI 402: Liberalism and Its Critics
  - POLSCI 403 / CLCIV 403: Greek Political Thought
  - POLSCI 404: Foundations of Modern Political Thought
  - POLSCI 405: Political Philosophy of the Enlightenment
  - POLSCI 409: Twentieth Century Political Thought
  - POLSCI 495: Undergraduate Seminar in Political Theory (*appropriate sections*)
  - CLCIV 403 / POLSCI 403: Greek Political Thought
  - WOMENSTD 422 / POLSCI 401: Feminist Political Theory
  - CMPLXSYS 391/POLSCI 391: Introduction to Modeling Political Processes
  - ECON 330 American Industries (prior to Fall 2017)
  - ECON 398: Strategy
  - ECON 402: Intermediate Macroeconomic Theory
  - ECON 408 / PHIL 408: Philosophy and Economics
  - ECON 409: Game Theory
  - ECON 425 / POLSCI 425: Inequality in the United States
  - ECON 432: Government Regulation of Industry
  - ECON 481: Government Expenditures
  - ECON 482: Government Revenues
  - PHIL 408 / ECON 408: Philosophy and Economics
  - POLSCI 322: Legislative Process
  - POLSCI 337: Comparative Constitutional Design
  - POLSCI 340: Governments and Politics in Western Europe, *section titled "A Game-Theoretic Approach to West European Politics"*
  - POLSCI 341: Comparative Politics of Developed Democracies
  - POLSCI 343: Political Economy of Developed Democracies
  - POLSCI 348: Political Economy of Development
  - POLSCI 363: International Organization & Integration
  - POLSCI 364: Public International Law
  - POLSCI 369: Politics of International Economic Relations
  - POLSCI 387: Comparative Analysis of Government Institutions
  - POLSCI 389: Topics in Contemporary Political Economy, *section titled "Political Strategy & Debate"*
  - POLSCI 391/CMPLXSYS 391: Introduction to Modeling Political Processes
  - POLSCI 425 / ECON 425: Inequality in the United States
  - POLSCI 432: Law and Public Policy
  - POLSCI 462: Strategic Interaction in World Politics
3. *Political Economy*: two courses engaging the economics of government or the politics of economic activity or institutions from the list below.
- AAS 347 / RCSSCI 343 / SOC 335: Urban Inequality in America

- POLSCI 496: Undergraduate Seminar in American Government and Politics, sections titled "U.S. State Economic Development Policies", "Modern Debates in U.S. Constitutional Law"
  - RCSSCI 343 / SOC 335 / AAS 347: Urban Inequality in America
  - SOC 335 / AAS 347 / RCSSCI 343: Urban Inequality in America
3. **Themes:** three additional courses (or two additional courses plus the Honors thesis sequence for Honors students) in a single theme in political economy. *At least two of these courses must be at the 400-level, and two must come from distinct academic disciplines.* PPE students are advised to start planning their themes as soon as they are admitted to the major. One philosophy course must be taken to satisfy either the normative theory requirement or one of the three required theme courses.

Students will devise a plan for advanced study focusing on a single theme in political economy, which may be normative, methodological, theoretical, or applied. Each student will write up a rationale for their theme in consultation with their PPE advisor and submit it to their advisor for approval. Possible themes could include advanced studies in any of the core areas, or focus on particular subjects/methods – for example, decision-making & strategic interaction, globalization, justice & equality, or comparative political economy. Courses listed under the core requirements may be used to satisfy the theme requirement as long as they are not also being used to satisfy the core requirement. The PPE committee will recommend courses for the theme requirement and post those to the PPE website. Students may propose courses not on the list that make a coherent fit with their theme. PPE advisors are authorized to approve such courses for the theme requirement.

Non-Honors students would follow their theme with the capstone seminar.

#### Other Department Policies

PPE Majors may use introductory Political Science, Philosophy, or Economics courses toward their College Area Distribution requirement.

#### Residency

At least 16 credits must be taken in residence.

#### Honors

In addition to fulfilling the prerequisites, PPE core, and distribution requirements, Honors students will take two courses in their theme and dedicate their thesis to a research project in that theme. Honors students take PPE 401-402 as their capstone course.

To be admitted to the Honors PPE program, students must have at least a 3.5 cumulative GPA and a 3.5 in courses used to satisfy PPE requirements, or permission of the director of PPE. Prospective PPE Honors students should begin planning their Honors program with their advisor as soon as possible.

Honors students will submit a thesis proposal for approval by the director of PPE. They will write a thesis in their theme under one of the following options:

- PPE 401 (thesis preparation seminar) and PPE 402 (an independent study thesis-writing course under the principal supervision of a faculty member in one of the three departments).  
Honors in PPE (PPE 401-402) will initially be run as meet-togethers with the respective Honors offerings of the three departments, and Honors PPE students will sort themselves into the different Honors thesis courses according to their primary disciplinary orientation. Thus, Honors PPE students may take PPE 401 as a meet-together with PHIL 401, POLSCI 493, or ECON 495 (the respective thesis-prep courses for each department). In the second term of their Honors sequence, PPE students will continue with PHIL 499 or POLSCI 494, if their theses are oriented to philosophy or political science, and may continue with ECON 495/498, if their economics-oriented thesis calls for a second academic term of work.
- ECON 495: Seminar in Economics or ECON 498: Honors Independent Research for students intending to write an economics-oriented Honors thesis for PPE. Most economics-oriented PPE theses would be expected to enroll in ECON 495, which is the primary Honors thesis vehicle for economics majors.

Honors will be awarded by a two-person committee consisting of the student's advisor plus a second reader in one of the other units, on the basis of the written thesis and an oral defense.

# Physics

The University of Michigan has one of the country's premier programs for the training of undergraduate and graduate students in physics. The Physics Department has abundant facilities for instruction in physics and offers a wide variety of experimental and theoretical research programs open to undergraduate and graduate students.

Undergraduates concentrating in physics have several degree choices:

- Physics (B.S.)
- Interdisciplinary Physics (A.B. or B.S.)
- Honors Physics Program
- Physics Minor

A total of 60 credits of mathematics and natural science must be elected to receive the Bachelor of Science degree.

Interested undergraduates may also want to look into work in medical physics (a promising path for pre-med students) in the [Applied Physics program](#), or in the [Engineering Physics program](#).

The analytical and quantitative thinking skills you will develop as you work toward any of these degrees will be of great value in many different careers. Most physics majors at U-M follow one (or more) of three paths after graduation:

- graduate work in physics or another field
- employment in industry, software development, or associated field
- professional school in medicine, business, law, or associated area.

The goal of physics is to understand the behavior of matter and energy on every level, from the origins of the universe in the Big Bang to the interior of atoms in your computer screen. In seeking a pure understanding of how the world works, physicists have revolutionized our lives.

Completing an undergraduate degree in physics will give you a rich understanding of how the world works. It will also prepare you either for continued study in graduate or professional school, or for careers in industry, education, medicine, and finance.

## Interdisciplinary Physics (A.B. or B.S.) (Major)

Modern science is increasingly interdisciplinary. The Interdisciplinary Physics major allows students the flexibility to supplement their core study of physics with courses in complementary fields. This major can be effective preparation for graduate study in the sciences, for medical, law, and business schools, or for direct entry into the job market.

Because students pursuing the Interdisciplinary Physics degree have a wide variety of career goals, advising from a Physics department advisor is especially important.

It is intended that the flexibility allowed by this program should be used in a well thought out and effective way.

*Effective Fall 2015*

### Advising

Students with any questions about courses or majors in Physics should speak with Physics department advisors.

Advising appointments can be scheduled in the Physics Student Services Office, 1440 Randall Lab [(734) 764-5539] or via the online advising calendar [www.lsa.umich.edu/physics/academics/undergraduateprogram/advising](http://www.lsa.umich.edu/physics/academics/undergraduateprogram/advising).

### Grade Policies

PHYSICS 390/391 and the two additional 400 level Physics courses must be completed with a minimum grade of a C- in each course and a cumulative average of C or higher.

### Prerequisites

- PHYSICS 140/141 and 240/241 (or PHYSICS 125/136 and 126/236, or PHYSICS 135/136 and 235/236, or PHYSICS 160/161 and 260/261); and
- PHYSICS 340 and 351.

### Requirements

#### Minimum Credits: 26

At least 26 credits, including at least 11 in PHYSICS courses numbered 390/391 and above.

The major must include:

1. PHYSICS 390/391.
2. Two additional Physics courses at the 400 level\*.

\*PHYSICS 390/391 and these 400 level Physics course must be completed with a minimum grade of a C- in each course and a cumulative average of C or higher.

3. Fifteen credits of cognate courses as part of an interdisciplinary plan designed with the approval of a department advisor.

The courses selected should form a coherent program of study.

Examples of possible programs of study include:

- Statistics,
- Astrophysics,
- Philosophy,
- Cosmology,
- Economics and Finance,
- Quantum Computing,
- Biology,
- Chemical Physics,
- Nanotechnology,
- Medical Physics,

- Environmental Physics,
- Global Change,
- Geophysics,
- Mathematical Physics,
- Science Writing,
- Science Policy,
- Physics of Technology,
- Applied Physics,
- Computational Physics,
- Physics Education, or
- Industrial Physics.

Possible course selections in each of these areas can be viewed at: <http://www.lsa.umich.edu/physics/academics/undergraduateprogram/majorminorprograms>

### Constraints

Of the 26 credits in the major, at least 11 PHYSICS courses must be numbered 390/391 and above.

### Residency

The Physics Department requires no less than 12 credits toward the major program be completed in-residence.

### Honors

Students who have a cumulative grade point average of at least 3.4 are encouraged to elect an Honors plan in Interdisciplinary Physics. In addition to the regular departmental requirements for the major, candidates for Honors must elect an additional three credits of PHYSICS from courses numbered 401 and above which are not otherwise required and elect an additional 3 credit course as part of the cognate program. They must also complete a senior Honors thesis based on research (PHYSICS 498/499) done under the supervision of a faculty member. Some students in this degree line are pursuing interdisciplinary or dual degrees. Students wishing to complete an Honors senior thesis with a faculty member outside the Physics Department must meet with a department advisor for prior approval.

### Teaching Certificate

LSA students may earn an A.B. or B.S. in Interdisciplinary Physics with a focus on teacher certification through the College of LSA and School of Education. Students who wish to earn a secondary teaching certificate in physics should schedule a physics advising appointment before applying to the SOE certification program through the Office of Undergraduate Admissions website. (Note: Students are encouraged to apply their sophomore year. The application deadline is October 15.)

## Physics (Major)

The undergraduate major in physics is designed to provide—through quantitative analysis—a thorough introduction to our current understanding of the physical world. A major in physics leads to a wide array of post-graduation options, including: graduate level study of physics and related disciplines; direct entry to the job market in technical, analytic, and education settings; and professional school in medicine, law, or business.

Undergraduates concentrating in physics have several degree choices:

- Physics
- Interdisciplinary Physics
- Honors Physics Program
- Physics Minor

The University of Michigan has one of the country's premier physics programs with top-notch facilities for instruction and a variety of experimental and theoretical research groups open to undergraduate students.

*Effective Winter 2017*

### Advising

Students with any questions about courses or majors in Physics should speak with Physics department advisors.

Students wishing to pursue a minor in Physics must develop a specific plan for its completion in consultation with the department's designated advisor.

Advising appointments can be scheduled in the Physics Student Services Office, 1440 Randall Lab [(734) 764-5539] or via the online advising calendar <http://lsa.umich.edu/physics/undergraduate-students/major---minor-programs.html>

### Grade Policies

Students must earn at least a C-in all courses they plan to include in the major, including the prerequisites.

### Prerequisites

Students prepare for the study of physics by completing the following introductory sequences (four courses total).

#### One of the following 100 level lectures:

- PHYSICS 135: Physics for the Life Sciences I (should be elected concurrently with PHYSICS 136)
- PHYSICS 140: General Physics I (must be taken concurrently with PHYSICS 141)
- PHYSICS 160: Honors Physics I (should be elected concurrently with PHYSICS 141 or 161)

#### One of the following 100 level labs:

- PHYSICS 136 Physics for the Life Sciences Laboratory I (should be elected concurrently with PHYSICS 135)
- PHYSICS 141: Elementary Laboratory I (must be taken concurrently with PHYSICS 140)
- PHYSICS 161: Honors Introductory Mechanics Lab (should be elected concurrently with PHYSICS 160)

#### One of the following 200 level lectures:

- PHYSICS 235: Physics for the Life Sciences II (should be elected concurrently with PHYSICS 236)
- PHYSICS 240: General Physics II (should be elected concurrently with PHYSICS 241)
- PHYSICS 260: Honors Physics II (should be elected concurrently with PHYSICS 241 or 261)

**One of the following 200 level labs:**

- PHYSICS 236: Physics for the Life Sciences Laboratory II (should be elected concurrently with PHYSICS 235)
- PHYSICS 241: Elementary Laboratory I (should be elected concurrently with PHYSICS 240)
- PHYSICS 261: Honors Electricity and Magnetism Lab (should be elected concurrently with PHYSICS 260)

Students who begin the introductory sequence should have completed at least one semester of calculus (MATH 115 or equivalent). Students who have not already done so should continue their study of mathematics concurrently with their PHYSICS coursework, progressing through differential equations (typically the fourth semester of calculus).

Students who passed one or more AP Physics exams with a score of 5 or higher or who passed the IB HL exam with a 4 or higher are strongly encouraged to elect the honors introductory sequence (PHYSICS 160, 161, 260, and 261).

It is not necessary to complete all courses in the prerequisite sequences in order to declare the physics major. Students are encouraged to officially declare as soon as they make the decision.

**Requirements****Minimum Credits: 29**

Once a student has mastered introductory content and declared the major, they prepare for advanced study of the discipline by fulfilling the Intermediate Courses Requirement (four courses), then move on to master advanced concepts, skills, problems, and topics of the discipline by completing the Advanced Courses Requirement (four courses), Advanced Laboratory Requirement (two courses), and an Advanced Elective Requirement (two courses).

**Intermediate Courses Requirement**

Students must complete all of the following:

- PHYSICS 340: Waves, Heat, and Light –OR– PHYSICS 360: Honors Physics III
- PHYSICS 351: Methods of Theoretical Physics I
- PHYSICS 390: Introduction to Modern Physics (must be taken concurrently with PHYSICS 391)
- PHYSICS 391: Introduction to Modern Physics Lab (must be taken concurrently with PHYSICS 390)

Ideally, PHYSICS 351 is elected no later than the second semester of the sophomore year. It is an enforced prerequisite for PHYSICS 390 and the Advanced Courses Requirement. PHYSICS 390 and 391 can be elected concurrently with PHYSICS 401 or 405 (part of the Advanced Courses Requirement).

**Advanced Courses Requirement**

Students must complete all of the following:

- PHYSICS 401: Intermediate Mechanics
- PHYSICS 405: Intermediate Electricity and Magnetism
- PHYSICS 406: Statistical and Thermal Physics
- PHYSICS 453: Quantum Mechanics

Students are encouraged to complete both PHYSICS 401 and 405 before electing PHYSICS 453.

**Advanced Laboratory Requirement**

Students must complete the following two courses:

- PHYSICS 441: Advanced Laboratory I
- PHYSICS 442: Advanced Laboratory II

**Elective Requirement**

Students round out their study of physics by taking two of the following elective courses:

- PHYSICS 402: Optics
- PHYSICS 411: Introduction to Computational Physics
- PHYSICS 413 / CMPLXSYS 541: Introduction to Nonlinear Dynamics and the Physics of Complexity
- PHYSICS / BIOPHYS / CHEM 417: Dynamical Processes in Biophysics
- PHYSICS / BIOPHYS 433: Biocomplexity
- PHYSICS 435: Gravitational Physics
- PHYSICS 438: Electromagnetic Radiation
- PHYSICS / BIOPHYS 450: Laboratory Techniques in Biophysics
- PHYSICS 452: Methods of Theoretical Physics II
- PHYSICS 460: Quantum Mechanics II (requires previous completion of PHYSICS 453)
- PHYSICS 463: Introduction to Solid State Physics (requires previous completion of PHYSICS 453)
- PHYSICS / CMPLXSYS 470: Experiments in Nonlinear Dynamics

**Constraints**

Courses elected as pass/fail may not be included in the major.

**Residency**

A minimum of 15 credits at the 300 level or above must be completed in residence.

**Honors**

Talented and highly motivated students who have an interest in conducting independent research are encouraged to complete an honors major. In addition to the requirements for major, honors majors must complete an additional six PHYSICS credits numbered at the 400 level or above and produce a senior thesis under the supervision of a faculty member.

**Physics (Minor)**

*Effective Fall 2015*

**Exclusions:**

*A minor in Physics is not open to students with any major in the Department of Physics.*

**Advising**

Students with any questions about courses or minors in Physics should speak with Physics department advisors.



Students wishing to pursue a minor in Physics must develop a specific plan for its completion in consultation with the department's designated advisor.

Advising appointments can be scheduled in the Physics Student Services Office, 1440 Randall Lab [(734) 764-5539] or via the online advising calendar [www.lsa.umich.edu/physics/academics/undergraduateprogram/advising](http://www.lsa.umich.edu/physics/academics/undergraduateprogram/advising).

### Prerequisites

None.

### Requirements

#### Minimum Credits: 18

1. One of the following introductory sequences and labs:
  - PHYSICS 135/136 and 235/236
  - PHYSICS 140/141 and 240/241
  - PHYSICS 160/161 and 260/261
2. PHYSICS 340
3. PHYSICS 390/391

### Constraints

#### Advanced Placement Credit and the Physics minor

Although course credit for PHYSICS 125/126/127/128 or PHYSICS 140/141/240/241 may be awarded on Advanced Placement (AP) Physics exams B or C, LSA policy does not allow those AP credits to be counted toward the minimum credits required for a minor. To qualify for the minor, students with AP exam credit must complete additional eligible courses within the Physics department for a total of at least 15 PHYSICS course credits. Eligible courses include PHYSICS 333 and 334 (Tutoring of PHYSICS 140 and 240), and PHYSICS 401. Other 400-level PHYSICS courses may also be used, subject to approval by a department advisor.

To get your AP credit, please schedule an appointment with a department advisor as soon as possible.

# Political Science

Political science is the systematic study of governmental and political structures, processes, and policies. This study uses institutional, quantitative, and philosophical approaches. The field is highly diverse, ranging across political theory, comparative government, international relations, American government, public policy, and research methods. Political scientists concentrate on public opinion and voting, organized political behavior, governmental institutions, studies of single countries, comparisons across countries and relations among countries. The field addresses both normative and empirical concerns.

## Political Science (Major)

Effective Fall 2016

### Advising

Normally, the decision to major is made late in the sophomore year or early in the junior year. Advising appointments are scheduled by going to the [Political Science website](#) or by contacting the department office. Appointments for the Honors advisor are scheduled at 1330 Mason Hall.

### Prerequisites

Students should prepare for advanced study in the discipline by completing two of the following introductory courses:

- POLSCI 101: Introduction to Political Theory
- POLSCI 111: Introduction to American Politics
- POLSCI 140: Introduction to Comparative Politics
- POLSCI 160: Introduction to World Politics

In rare circumstances, departmental advisors may approve the use of an upper-level course to meet the prerequisite.

### Requirements

#### Minimum Credits: 30

At least 30 credits in POLSCI at the 300 level or above (in addition to required prerequisites).

Core courses must be elected from the 300-level or higher and include at least:

- two courses at the 400-level, or
- one 400-level POLSCI course and one ULWR POLSCI course.

Students are encouraged to elect an undergraduate topics seminar at the 400 level (POLSCI 495, 496, 497, or 498) in their senior year.

Political science majors are expected to acquire an appreciation of the diverse styles of political inquiry by electing at least one course in four of the following five subfields: political theory, American government, comparative politics, world politics, and methodology. Coursework from both the prerequisite and upper-level courses are used to meet this requirement. STATS 250 does not count toward methods requirements for the major.

### Roster of POLSCI subfields and courses

- **American**  
111, 300, 310, 311, 312, 313, 314, 315, 316, 317, 318, 319, 320, 321, 322, 323, 324, 326, 327, 329, 330, 331, 332, 333, 334, 335, 380, 385, 410, 432, 482, 484, 486, 496
- **Comparative**  
140, 336, 337, 338, 339, 340, 341, 342, 343, 344, 345, 346, 347, 348, 349, 350, 351, 352, 353, 354, 355, 356, 357, 358, 359, 382, 387, 395, 396, 397, 451, 497
- **Methods**  
381, 391, 488, 490, 499
- **Theory**  
101, 301, 302, 306, 307, 308, 309, 400, 401, 402, 403, 404, 405, 406, 407, 408, 409, 495
- **World**  
160, 360, 361, 363, 364, 365, 368, 369, 370, 371, 372, 379, 462, 463, 498

### Constraints

Only eight credits of Experiential and Independent Study credit may be included in the major. Only four of these credits can come from POLSCI 399.

Only 12 credits of study abroad coursework in political science may be counted toward the major. Students are encouraged to seek preapproval of study abroad selections.

### Residency

At least 12 credits – including both 400 level courses – must be taken on the Ann Arbor campus.

### Honors

Especially well-qualified students are encouraged to undertake an Honors plan, which involves preparing a thesis under the direction of a faculty member. To become eligible for the Honors plan, students must take POLSCI 381 before their senior year. During the senior year, students enroll in a proseminar in which they prepare the thesis.

The department collects applications to the Honors plan during the winter of each academic year. Students usually apply during their junior year. Sophomore majors who have completed POLSCI 381 may apply during their sophomore or junior year. To be admitted to the Honors plan, students must have:

- received an A-range grade in POLSCI 381,
- a grade point average of 3.5 or higher both overall and in Political Science courses,
- secured a faculty member as a thesis advisor,
- written a thesis research proposal (which is generally done in POLSCI 381).

The Honors plan requires at least 34 credit hours of POLSCI coursework at the 300 level or above and must include the following:

- POLSCI 381: Political Science Research Design
- POLSCI 493 : Senior Honors Proseminar (fall only)

- POLSCI 494: Senior Honors Proseminar (winter only)
- at least one course in four of the following five subfields: political theory, American government, comparative politics, world politics, and methodology.

A student must end their undergraduate career with at least a 3.5 GPA in political science coursework and a 3.4 overall GPA in order to receive any level of Honors with their diploma.

#### Teaching Certificate

Students interested in obtaining a secondary teaching certificate with a teaching major or minor in Political Science should consult "Teacher Certification Program" and the School of Education Teacher Education Office, 1228 School of Education Building, (734) 615-1528.

## Political Science (Minor)

The minor in political science gives students training in a rigorous discipline and way of thinking and understanding problems. This is an indispensable part of any liberal arts major. Political Science gives students a better understanding of the way public affairs are conducted and a more practical knowledge of how citizens, elected representatives, judges, and administrators approach the decisions they are called upon to make. A minor in political science prepares students to become more active citizens by training them to become astute and informed observers of political behavior in their own country and around the world.

*Effective Fall 2015*

#### Exclusions:

*A minor in Political Science is not open to students with a major in the Department of Political Science.*

#### Advising

Students wishing to pursue a minor in Political Science must develop a specific plan for its completion in consultation with the Department's designated advisor.

#### Prerequisites

Students should prepare for advanced study in the discipline by completing two of the following introductory courses:

- POLSCI 101: Introduction to Political Theory
- POLSCI 111: Introduction to American Politics
- POLSCI 140: Introduction to Comparative Politics
- POLSCI 160: Introduction to World Politics

In rare circumstances, departmental advisors may approve the use of an upper-level course to meet the prerequisite.

#### Requirements

##### Minimum Credits: 15

In addition to the prerequisite courses, students who wish to complete the minor in Political Science must complete five POLSCI courses at the 300 level or above for a minimum of 15 credits.

The minor in Political Science is a structured course of study. A sustained focus on two disciplinary subfields makes it possible for students to acquire this structure without completing a full major. Therefore, core courses in the minor must be taken in the same

subfield (political theory, American politics, comparative politics, or world politics) as the prerequisite courses.

#### Constraints

Only three credits of Experiential and Independent Study credit may be included in the minor.

#### Residency

At least three of the five upper level courses must be taken on the Ann Arbor campus.

# Psychology

## Curriculum

The curriculum in psychology is intended to enhance one's understanding of behavioral science and of oneself and others in terms of concepts developed by study. The undergraduate major program is not intended to prepare students for any specific vocational objective; to become a professional psychologist requires from two to four years (or more) of graduate study.

**Curriculum Guides.** Curriculum Guides are available for both Psychology and Biopsychology, Cognition, and Neuroscience majors. Clusters are groupings of courses (both within the Department of Psychology and throughout other programs at the University of Michigan) that focus on a more specific area related to psychology. Students are encouraged to refer to these clusters when making academic and career goals.

The following clusters are currently available:

- Behavioral and Cognitive Neuroscience
- Business, Systems, and Organizations
- Culture, Context, and Communities
- Development, Psychopathology, and Mental Health
- Evolution, Biology, and Behavior
- Gender, Psychology, and Society
- Health, Development, and Aging
- Intergroup Relations
- Language, Thought, and Culture
- Law, Criminal Justice, and Forensics

## Biopsychology, Cognition, and Neuroscience (BCN) (Major)

### Goals of the Major in BCN

The overall goal of Biopsychology, Cognition, and Neuroscience major is to provide a course of study that integrates the natural science components of the study of behavior and prepares students for graduate study in a number of related fields. The program integrates neuroscience, cognitive science, and evolutionary approaches to the study of behavior. This major is particularly appropriate for students interested in graduate study of human cognition, biopsychology, behavioral neuroscience, comparative animal behavior, and evolutionary psychology. A variety of research course options are available to provide the research training needed for post-graduate study. A variety of other career opportunities are also available when additional appropriate courses are chosen from other departments.

*Effective Fall 2015*

### Exclusions:

*Students who elect a major in Biopsychology, Cognition, and Neuroscience may not elect the Neuroscience or Psychology majors.*

### Advising

Students choosing psychology as a field of the major develop an approved plan for the major with a department advisor. Students then assume responsibility for completing their program of study or for making revisions which will not jeopardize their graduation. Students are, however, encouraged to consult a department advisor at any time. A department advisor must approve the original plan for the major and any exceptions to the stated requirements for the major. Students should also consult a department advisor when planning the final term's elections to ensure that all requirements for the major have been met and to secure an advisor's approval on a Major Release form. Appointments for students are scheduled at 1343 East Hall or online through the [Department website](#).

### Peer Advising

Advising by Undergraduate Psychology Academic Peer Advising Program students is available at 1343 East Hall during the fall and winter terms.

### Prerequisites

An introductory course (PSYCH 111, 112, or 114) with a minimum letter grade of "C"; and STATS 250 or STATS 280 with a minimum letter grade of "C-".

### Requirements

#### Minimum Credits: 32

1. **Core course requirement.** Both courses are required:
  - *Biopsychology:* PSYCH 230
  - *Cognitive Psychology:* PSYCH 240
2. **Breadth course requirement.** Choose one course from the following:
  - PSYCH 250, 270, 280, 290, or 291
3. **Lab requirement.** Two courses for a minimum of 5 credits total. At least one lab must be methods-based and only one non-Psych course may be elected. Students must see an advisor to use thesis courses to meet lab requirements.
  - *Methods-Based Lab Courses:* PSYCH 302, 303, 331, 341, 343, 422, 423, 426, 428 (2nd term); BIOLOGY 226; EEB 381 or 493; MCDB 306, 308, or 423
  - *Research Lab Courses:* PSYCH 226, 322, 326, 422, 423, 424, 428 (1st term)
4. **Cognate course requirement.** One course selected from the following list or a Psychology 300-400 level course (lec/sem) not on the advanced course list. One course selected from the following list:
  - ANTHRBIO 467, 478, (568)
  - BIOLCHEM 415
  - BIOLOGY 208, 222, 225, 305
  - CHEM 351

- COGSCI 200
  - EEB 381, 390, 440/ENVIRON 442/NRE 442, 442, 450, 451/ENVIRON 451/NRE 451, 481, 492
  - EECS 281, 492
  - LING 315, 514
  - MCDB 307, 310, 311, 418, 422, 425, 534
  - PHIL 340, 345, 450, 482
  - STATS 401, 406
5. **Additional course requirement.** Four additional upper-level courses for at least 12 credits. Two courses must be at the 300-level and one course at the 400-level
- *300-level courses:* PSYCH 330, 332, 333, 334, 335, 336, 337, 338, 339, 340, 343, 344, 345, 346, 347, 348, 349, 352, 355, 356, 358, 359
  - *400-level courses:* PSYCH 414, 420, 430, 431, 432, 433, 434, 435, 438, 440, 441, 442, 443, 444, 445, 446, 447, 448, 449

#### Constraints

- 100-level courses may not be used to meet the requirements for the major or the credit requirement.
- Credit/No-credit courses may be used toward the Lab requirement, but will not count toward the total number of psychology credits required for major.
- Although some courses that are graded credit/no credit may be used to meet the lab requirement, 32 credits must be letter graded.

#### Residency

Of the 40 overall credits (pre-requisites and courses for the major), 24 must be completed in-residence directly through University of Michigan's Department of Psychology. Of these 24 credits, 12 credits must be upper-division (300 or above).

#### Honors

##### ***The Honors Program in Psychology and in Biopsychology, Cognition, and Neuroscience***

Psychology and Biopsychology, Cognition, and Neuroscience majors with strong academic records and an interest in research are encouraged to consider participating in the Honors Program. The program is designed to enable advanced students to gain experience in design, conduct, and analysis of research studies. Students experience an intensive collaboration with a faculty member, and complete a major effort to create new scientific knowledge. The Honors Program can serve as a capstone for their undergraduate studies, and as important preparation for graduate training or employment in a variety of fields.

1. **Requirements.** In addition to completing all the requirements for the major, an Honors degree designation requires having and maintaining a cumulative GPA of at least 3.4, participation in two terms of independent study Honors courses, presenting in the Annual Research Forum, and the completion and acceptance of a written thesis describing an original research project conducted in collaboration with a faculty mentor.
2. **Faculty Partnership.** Students wishing to pursue Honors should explore their interests in research and statistics early in their academic career. The student must then identify a faculty research mentor to work in partnership on an Honors project. The research mentor can be any faculty member or research scientist holding a faculty appointment in the University. Students must have one mentor from the Psychology Department. With the mentor as a collaborator, the student will prepare a project plan and timeline for completion. Application deadlines are posted on the Psychology Honors website.
3. **Admission to the Honors Program.** A student and their faculty research mentor must apply together for admission to the program; this includes an application and research proposal. Students are encouraged to apply the semester before their final year at the university (i.e., the end of their Junior year) to begin the Fall term of their Senior year. Students will need to have completed their Statistics requirement and have completed or planned completion of their Methods-based lab requirement before applying to the program.
4. **Courses.** Once accepted into the Honors Program, Psychology concentrators will elect both PSYCH 425 and 427; Brain, Behavior, and Cognitive Science concentrators will elect both PSYCH 424 and 426. The Honors courses are graded, may be used towards the required experiential lab credits (Psychology major: for a maximum of 6 experiential lab credits and BCN major: maximum of 3 credits) and PSYCH 426 or 427 may satisfy the college upper-level writing requirement. Students may be required to take a Methods-based lab in addition to these courses, and are encouraged to meet with the Honors concentration advisor to plan how each course will count toward their plan.
5. **The Honors Thesis.** The required senior Honors thesis is a written report describing the design and execution of the research project conducted in collaboration with the faculty mentor. The thesis will be due one calendar month before the anticipated graduation date. All Honors theses must be prepared in American Psychological Association (APA) format, and typically run 30-40 double-spaced pages in length. One electronic and hard copy of the thesis and a submission form must be submitted.
6. **Evaluation of Thesis.** The thesis will be evaluated by two-three readers: the mentor, an outside reader (a faculty member not involved in the research project), and a possibly representative of the Honors Program. Students and mentors are responsible for suggesting a second reader prior to submitting their application. The reports of all readers will address the quality of the science reported in the thesis, as well as the quality of the written presentation. The report of the mentor will also address the role the student played in the design, execution, and interpretation of the experiments reported in the thesis, and should point out the role played by others on the project. The Honors Director will then meet to review the recommendations of the readers and decide on the appropriate level of Honors. The Honors Director will attempt to maintain uniform standards, and is not constrained by the recommendations of the readers. Based on LSA guidelines, a determination of "No Honors," "Honors,"

"High Honors," or "Highest Honors" is made. This determination of an Honors designation must be completed prior to the actual awarding of the degree.

Students interested in the Psychology Department Honors Program should attend an informational session and review program details on the website prior to applying.

## Cognitive Science (Major)

*May be elected as an interdepartmental major*, jointly administered by the Departments of Linguistics, Philosophy, and Psychology, and supervised by the Cognitive Science Executive Committee

Cognitive science is the cross-disciplinary study of mind, brain, and behavior. This study is conducted at multiple levels of analysis, ranging from theories of neuronal processing, to computational models of how information is processed, to evolutionary models intending to explain various features of mental architecture. Recent advances in cognitive science — made possible in large part by crossing conventional disciplinary and departmental boundaries — are distinguished by efforts to build comprehensive theories that integrate these multiple levels of analysis. Through rigorous, multi-disciplinary investigations, the field continues to reformulate fundamental and enduring questions, while posing new ones, concerning the nature of, for example, thought, reason, decision, language, and knowledge.

The Weinberg Institute for Cognitive Science reflects these developments by coordinating interdisciplinary course offerings and research training for students seeking a degree in Cognitive Science. Tracks of study within the major provide primary (but concomitantly interdisciplinary) emphases on (a) **computation and cognition**, (b) **decision**, (c) **language**, and (d) **philosophy of mind**. The major is therefore intended for students interested in a natural or social science degree in the behavioral and brain sciences with a combined focus and breadth not accommodated by a major within any single department.

*Effective Fall 2016*

### Advising

A three-tier advising system exists.

- Peer advisors (**Tier 1**) will help majors select a major track, identify courses that suit their interests, and plan course schedules.
- Students will meet with advisors in the major (student services staff; **Tier 2**) when declaring, making course substitutions, discussing transfer/study abroad credit evaluations, preparing major release forms, and more.
- Students will meet with faculty advisors (**Tier 3**) for more detailed discussions about their undergraduate preparation, graduate school, and research opportunities (including possible post-graduate training opportunities). Faculty advisors are faculty in Linguistics, Philosophy, and Psychology.

Although all tracks are interdisciplinary, each has a particularly heavy concentration of courses in one of the sponsoring units, and advisors for a given track will be primarily selected from that unit:

- **Computation and Cognition**

- **Decision and Cognition**
- **Language and Cognition**
- **Philosophy and Cognition**

Advising appointments can be made [here](#); or by contacting [cogsciprogram@umich.edu](mailto:cogsciprogram@umich.edu)

### Grade Policies

Cognitive Science majors must earn a grade of at least C in all courses taken to satisfy the requirements of the major (including the major gateway/prerequisite course, COGSCI 200).

### Prerequisites

1. COGSCI 200: Introduction to Cognitive Science completed with a grade of at least C  
Students may declare the Cognitive Science major after they have completed COGSCI 200.
2. Each track has prerequisites for that track's core courses.  
Courses used to satisfy track elective requirements may have additional prerequisites.

### Requirements

#### Minimum Credits: 27

The major is structured into four tracks, each representing a major area of research within contemporary cognitive science.

Each track consists of:

1. Three required courses
2. Five elective courses (chosen from a track-specific list)
3. Senior capstone experience (chosen from courses identified each year by the Cognitive Science Executive Committee)

**The combined set of students' required and elective courses must be selected from a minimum of three departments.**

### Decision and Cognition Track

The study of decision and choice is a lively area of contemporary cognitive science inquiry. The Decision and Cognition track provides students with sustained, cohesive instruction in a single, important content area: contemporary approaches to decision-making and choice. Students are presented with theoretical approaches to judgment and decision-making from psychology, emerging neurocircuit models of reward and reinforcement from neurobiology, algorithmic models of planning and action selection from computer science, formal approaches to rational choice (e.g., rational choice theory and game theory) from philosophy and political science, and cutting-edge approaches to understanding irrationality from behavioral economics. Critical thinking skills are honed as students learn about a well-defined content area from diverse perspectives and across multiple levels of analysis. The required courses in the Decision and Cognition track give students an introduction to historically influential approaches to decision-making drawn from three major fields. Students then have the opportunity to take coursework in a number of disciplines that approach decision-making from diverse but complementary theoretical perspectives.

### Required Track Courses

1. PHIL 361: Ethics

2. One of:
  1. PHIL 443: Foundations of Rational Choice Theory
  2. PHIL 444: Groups and Choices
  3. ECON 408/PHIL 408: Philosophy and Economics
3. PSYCH 449: Decision Processes

**Electives.** Five courses selected from:

- ECON 309: Experimental Economics
- ECON 408/PHIL 408: Philosophy and Economics
- ECON 490: Topics in Microeconomics: Economics and Psychology
- EECS 492: Introduction to Artificial Intelligence
- PHIL 340: Minds and Machines
- PHIL 366: Introduction to Political Philosophy
- PHIL 408/ECON 408: Philosophy and Economics
- PHIL 429: Ethical Analysis
- PHIL 443: Foundations of Rational Choice Theory
- PHIL 444: Groups and Choices
- POLSCI 391: Modeling Political Processes
- POLSCI 490: Game Theory and Formal Models
- PSYCH 335: Introduction to Animal Behavior
- PSYCH 345: Introduction to Human Neuropsychology
- PSYCH 346: Learning and Memory
- PSYCH 348: Psychology of Thinking
- PSYCH 433: Biopsychology of Motivation
- PSYCH 448: Mathematical Psychology
- PSYCH 476: Positive Psychology

**Computation and Cognition Track**

A foundational idea of cognitive science is that mental processes are computational, and computation remains central to (but not the exclusive domain of) the field. This track requires students to take coursework in psychology and computer programming. Subsequent depth courses emphasize — although not exclusively so — computational and formal methods including machine learning, computational linguistics, rational choice theory, and mathematical psychology.

**Required Track Courses**

1. One of
  1. PSYCH 240: Introduction to Cognitive Psychology
  2. PSYCH 245: Cognitive Neuroscience
2. EECS 281: Data Structures and Algorithms
3. EECS 492: Introduction to Artificial Intelligence

**Electives.** Five courses selected from:

- EECS 445: Introduction to Machine Learning
- EECS 595/LING 541/SI 561: Natural Language Processing
- LING 313: Sound Patterns
- LING 315: Introduction to Syntax
- LING 316: Aspects of Meaning
- LING 347/PSYCH 349: Talking Minds
- LING 352/PSYCH 352: Development of Language and Thought
- LING 441: Computational Linguistics
- LING 447/PSYCH 445: Psychology of Language
- LING 541/EECS 595/SI 561: Natural Language Processing
- PHIL 345: Language and Mind
- PHIL 383: Knowledge and Reality
- PHIL 417: Logic and Artificial Intelligence
- PHIL 443: Foundations of Rational Choice Theory
- PHIL 450: Philosophy of Cognition
- PHIL 482: Philosophy of Mind
- PSYCH 345: Introduction to Human Neuropsychology
- PSYCH 346: Learning and Memory
- PSYCH 348: Psychology of Thinking
- PSYCH 349/LING 347: Talking Minds
- PSYCH 352/LING 352: Development of Language and Thought
- PSYCH 355: Cognitive Development
- PSYCH 445/LING 447: Psychology of Language
- PSYCH 448: Mathematical Psychology
- PSYCH 449: Decision Processes
- SI 561/EECS 595/LING 541: Natural Language Processing

**Language and Cognition Track**

Because human language is universal in the species and grounded in human cognition and biology, linguistic inquiry was an integral component of the cognitive science revolution. Contemporary approaches to language synthesize models and findings from multiple disciplines, and the proposed curriculum is correspondingly interdisciplinary. The Language and Cognition track gives students a solid theoretical introduction to language through required coursework in linguistics, and in the philosophy and psychology of language. Further coursework broadens the investigation of language to include topics in computational linguistics and computer science, formal methods, and language development and learning.

**Required Track Courses**

1. One of:

1. LING 313: Sound Patterns,
2. LING 315: Introduction to Syntax,
3. LING 316: Aspects of Meaning
2. One of:
  1. PHIL 345: Language and Mind
  2. PHIL 409: Philosophy of Language
  3. PHIL 426/LING 426: Philosophy & Linguistic Theory
3. LING 347/PSYCH 349: Talking Minds

**Note: (effective Fall 2016)** Students in the Language and Cognition Track may not elect PHIL 426 as both an elective and as one of the required track courses.

**Electives.** Five courses selected from:

- EECS 376: Foundations of Computer Science
- EECS 492: Introduction to Artificial Intelligence
- EECS 595/LING 541/SI 561: Natural Language Processing
- LING 313: Sound Patterns
- LING 315: Introduction to Syntax
- LING 316: Aspects of Meaning
- LING 342: Perspectives on Bilingualism
- LING 351/PSYCH 344: Second Language Acquisition
- LING 352/PSYCH 352: Development of Language and Thought
- LING 412: Speech Perception
- LING 421: Morphology
- LING 426/PHIL 426: Philosophy & Linguistic Theory
- LING 440: Language Learnability
- LING 441: Computational Linguistics I
- LING 442: Computational Linguistics II
- LING 446: Comparative
- LING 447/PSYCH 445: Psychology of Language
- LING 541/EECS 595/SI 561: Natural Language Processing
- PHIL 340: Minds and Machines
- PHIL 345: Language and Mind
- PHIL 409: Philosophy of Language
- PHIL 414: Mathematical logic
- PSYCH 344/LING 351: Second Language Acquisition
- PSYCH 352/LING 352: Development of Language and Thought
- PSYCH 445/LING 447: Psychology of Language
- SI 561/EECS 595/LING 541: Natural Language Processing

There is extensive interaction between contemporary philosophy, especially philosophy of mind and ethics, and cognitive science. Philosophers have long posed fundamental questions about the nature of mind, the relationship between the mental and physical, and the nature of human agency. Cognitive science provides a rich and ever-expanding body of theory, models, and findings that are relevant to these timeless philosophical questions. The Philosophy and Cognition track requires coursework in core philosophical, formal and cognitive approaches to mind. More in-depth coursework allows students to deepen their understanding of the philosophical problems and analytical enigmas raised by language and other symbolic systems, artificial intelligence, inference and reasoning, and decision-making.

**Required Track Courses**

1. One of:
  1. PSYCH 240: Introduction to Cognitive Psychology
  2. PSYCH 245: Cognitive Neuroscience
2. One of:
  1. PHIL 340: Minds and Machines
  2. PHIL 482: Philosophy of Mind
3. One of:
  1. PHIL 303: Introduction to Symbolic Logic
  2. PHIL 305: Introduction to Formal Philosophical Methods

**Electives.** Five courses selected from:

- LING 315: Introduction to Syntax
- LING 316: Aspects of Meaning
- LING 347/PSYCH 349: Talking Minds
- LING 352/PSYCH 352: Development of Language and Thought
- LING 426/PHIL 426: Philosophy & Linguistic Theory
- LING 447/PSYCH 445: Psychology of Language
- PHIL 340: Minds and Machines
- PHIL 345: Language and Mind
- PHIL 361: Ethics
- PHIL 383: Knowledge and Reality
- PHIL 389: History of Philosophy: Seventeenth and Eighteenth Centuries
- PHIL 409: Philosophy of Language
- PHIL 413: Formal Philosophical Methods
- PHIL 414: Mathematical Logic
- PHIL 417: Logic and Artificial Intelligence
- PHIL 420: Philosophy of Science
- PHIL 426/LING 426: Philosophy & Linguistic Theory
- PHIL 443: Foundations of Rational Choice Theory



- PHIL 444: Groups and Choices
- PHIL 450: Philosophy of Cognition
- PHIL 482: Philosophy of Mind
- PHIL 485: Philosophy of Action
- PSYCH 345: Introduction to Human Neuropsychology
- PSYCH 346: Learning and Memory
- PSYCH 348: Psychology of Thinking
- PSYCH 349/LING 347: Talking Minds
- PSYCH 352/LING 352: Development of Language and Thought
- PSYCH 355: Cognitive Development
- PSYCH 445/LING 447: Psychology of Language
- PSYCH 448: Mathematical Psychology
- PSYCH 449: Decision Processes

### Constraints

**Distribution.** Students in the Cognitive Science major may count introductory courses in PSYCH, LING, PHIL, ECON, EECS toward their College Area Distribution requirement, although these introductory courses cannot simultaneously count as core courses in the major. COGSCI 200 will not count toward distribution for Cognitive Science majors.

### Other Department Policies

**Double Majoring.** Cognitive Science majors may double major in BCN, Linguistics, Neuroscience, Philosophy, Psychology, or other fields. However, to ensure that these students have devoted significant, independent effort to each major, **only three courses** can be counted toward both majors.

### Honors

The Honors plan within Cognitive Science is designed for students with strong academic records who wish to pursue a research project. Interested students will apply for the Honors plan in their junior year. The application will include a research proposal and must be signed by the faculty mentor. Applications will be reviewed by the Cognitive Science Executive Committee to ensure that, for qualified students, the mentor-mentee relation is established prior to the senior year and the project falls within cognitive science. Students in the Cognitive Science Honors plan will register for at least two terms of independent study (e.g., LING 495 and 496, PHIL 498 and 499, PSYCH 424 and 426), usually in the Fall and Winter terms of their senior year, with their faculty mentor in Linguistics, Philosophy, or Psychology. Honors students must complete an Honors thesis, which will be evaluated by two faculty, the faculty mentor and a second reader from a different department (which might include, for example, Biology, Computer Science, or Economics).

## Psychology (General Social Science) (Major)

The overall goal of the Psychology concentration is to provide students with a broad background in the various levels of analysis and methodological approaches used in the study of behavior, particularly human behavior, and to prepare students for graduate study in a

number of fields. Students can gain research training, experience in a wide variety of community settings, and tailor course selections to meet their long-term post-graduate goals. A Psychology degree, in conjunction with courses chosen from other disciplines, can prepare students for careers interacting with people of all ages and backgrounds in a wide range of fields.

*Effective Fall 2016*

### Exclusions:

*Students who elect a major in Psychology may not elect the Biopsychology, Cognition, and Neuroscience major.*

### Advising

Students choosing psychology as a field of the major develop an approved plan for the major with a department advisor. Students then assume responsibility for completing their program of study or for making revisions which will not jeopardize their graduation. Students are, however, encouraged to consult a department advisor at any time. A department advisor must approve the original plan for the major and any exceptions to the stated requirements for the major. Students should also consult a department advisor when planning the final term's elections to ensure that all requirements for the major have been met and to secure an advisor's approval on a Major Release form. Appointments for students are scheduled at 1343 East Hall or online through the [Department website](#).

### Peer Advising

Advising by Undergraduate Psychology Academic Peer Advising Program students is available at 1343 East Hall during the fall and winter terms.

### Grade Policies

Although some courses that are graded credit/no credit may be used to meet the lab requirement, the 24 major credits must be letter graded.

### Prerequisites

- an introductory course (PSYCH 111, 112, or 114) with a "C" or better
- STATS 250 or 280 with a "C-" or better

### Requirements

#### Minimum Credits: 24

A minimum of 40 credits, including the prerequisites and courses within the major. At least two courses must be taken at the 300-level.

1. **Breadth Requirement:** One course from each of three breadth groups
  - Group I: PSYCH 220 or 240
  - Group II: PSYCH 250 or 270
  - Group III: PSYCH 280 or 290 or 297
2. **Lab Requirement:** To meet the lab requirement, students may complete either:
  1. two (at least 3 credits each) courses from

- the list of Methods-based Lab courses;
2. one (at least 3 credits) course from the list of Methods-based Lab courses and one (at least 3 credits) course from the list of Experiential Lab courses (*i.e.*, Community-based or Research-based); or
  3. the Psychology Honors Research sequence (6 credits total) and one course (at least 3 credits) from the list of Methods-based Lab courses.
- be substituted for one of these courses)
  - at least one of the courses must be at the 400-level

### Constraints

Student double majoring in Psychology and Neuroscience may share a maximum of 3 courses toward their two programs.

A total of six credits of Psychology letter-graded Experiential lab (community or research-based courses) may be counted towards the Psychology major.

### Residency

Of the 40 overall credits (pre-requisites and courses for the major), 24 must be completed in-residence directly through University of Michigan's Department of Psychology. Of these 24 credits, 12 credits must be upper-division (300 or above)

### Honors

#### ***The Honors Program in Psychology and in Biopsychology, Cognition, and Neuroscience***

Psychology and Biopsychology, Cognition, and Neuroscience concentrators with strong academic records and an interest in research are encouraged to consider participating in the Honors Program. The program is designed to enable advanced students to gain experience in design, conduct, and analysis of research studies. Students experience an intensive collaboration with a faculty member, and complete a major effort to create new scientific knowledge. The Honors Program can serve as a capstone for their undergraduate studies, and as important preparation for graduate training or employment in a variety of fields.

1. **Requirements.** In addition to completing all the requirements for the concentration, an Honors degree designation requires having and maintaining a cumulative GPA of at least 3.4, participation in two terms of independent study Honors courses, presenting in the Annual Research Forum, and the completion and acceptance of a written thesis describing an original research project conducted in collaboration with a faculty mentor.
2. **Faculty Partnership.** Students wishing to pursue Honors should explore their interests in research and statistics early in their academic career. The student must then identify a faculty research mentor to work in partnership on an Honors project. The research mentor can be any faculty member or research scientist holding a faculty appointment in the University. Students must have one mentor from the Psychology Department. With the mentor as a collaborator, the student will prepare a project plan and timeline for completion. Application deadlines are posted on the Psychology Honors website.
3. **Admission to the Honors Program.** A student and their faculty research mentor must apply together for admission to the program; this includes an application and research proposal. Students are encouraged to apply the semester before their final year at the university (*i.e.*, the end of their Junior year) to begin the Fall term of their Senior year. Students will need to have completed their Statistics requirement and have completed or planned completion of their Methods-based lab requirement before applying to the program.

**Methods-Based Lab Courses:** PSYCH 303, 331/332, 341, 351, 361, 371, 381, 383, 391.

**Experiential Lab Courses:** (3 credits minimum to satisfy requirement):

**Community-based Lab Courses:** PSYCH 211, 304, 305, 306, 307, 308, 310, 311, 317, 319, 324, 325, 404, 405, 485;

**Research-based Lab Courses:** PSYCH 226, 322, 323, 326, 327, 422, 423, 428, 429;

**Honors Research Sequence:** PSYCH 424 & 426, or 425 & 427.

*Note: Credit/No-credit courses may be used toward the Lab requirement, but will not count toward the total number of psychology credits required for major. A total of six credits of Psychology letter-graded Experiential lab (community or research-based courses) may be counted towards the Psychology major.*

A minimum of three credits of Research-based courses must be taken in a single academic term to satisfy the Psychology Lab requirement. Students wishing to pursue the Psychology Honors Research program should acquire research and statistical skills early in their major before applying.

3. **Electives: Additional 300- and 400-level Courses for the major.**  
The remainder of the major is filled by at least four upper-level Psych lecture or seminar courses for a minimum of 12 credits:
  - at least two of the courses must be at the 300-level (PSYCH 223 (F17), 225 or COGSCI 200 may

4. **Courses.** Once accepted into the Honors Program, Psychology concentrators will elect both PSYCH 425 and 427; Brain, Behavior, and Cognitive Science concentrators will elect both PSYCH 424 and 426. The Honors courses are graded, may be used towards the required experiential lab concentration credits (Psychology concentration: for a maximum of 6 experiential lab credits and BCN concentration: maximum of 3 credits) and PSYCH 426 or 427 may satisfy the college upper-level writing requirement. Students may be required to take a Methods-based lab in addition to these courses, and are encouraged to meet with the Honors concentration advisor to plan how each course will count toward their plan.
5. **The Honors Thesis.** The required senior Honors thesis is a written report describing the design and execution of the research project conducted in collaboration with the faculty mentor. The thesis will be due one calendar month before the anticipated graduation date. All Honors theses must be prepared in American Psychological Association (APA) format, and typically run 30-40 double-spaced pages in length. One electronic and hard copy of the thesis and a submission form must be submitted.
6. **Evaluation of Thesis.** The thesis will be evaluated by two-three readers: the mentor, an outside reader (a faculty member not involved in the research project), and a possibly representative of the Honors Program. Students and mentors are responsible for suggesting a second reader prior to submitting their application. The reports of all readers will address the quality of the science reported in the thesis, as well as the quality of the written presentation. The report of the mentor will also address the role the student played in the design, execution, and interpretation of the experiments reported in the thesis, and should point out the role played by others on the project. The Honors Director will then meet to review the recommendations of the readers and decide on the appropriate level of Honors. The Honors Director will attempt to maintain uniform standards, and is not constrained by the recommendations of the readers. Based on LSA guidelines, a determination of "No Honors," "Honors," "High Honors," or "Highest Honors" is made. This determination of an Honors designation must be completed prior to the actual awarding of the degree.

Students interested in the Psychology Department Honors Program should attend an informational session and review program details on the website prior to applying.

# Residential College

## Arts and Ideas in the Humanities (Major)

Students wishing to pursue a major program in Arts and Ideas in the Humanities must develop a specific plan for its completion in consultation with the program's designated advisor. Appointments may be scheduled at the RC Advising Office, 134 Tyler, East Quad, or by calling 734.763.0032.

The Arts and Ideas Major offers students the ability to construct an interdisciplinary major in the arts and humanities. Majors can combine either two humanities disciplines or a humanities discipline with an artistic practice. Many courses focus on a specific historical moment or context, encouraging students to examine a particular culture through a broad range of different media. In these courses, students are asked to develop interpretive and analytical skills appropriate to the arts. Courses in visual studies, performance, and studio art provide training in the comparative analysis or practice of different art forms. By combining practice with the academic study of art, the Arts and Ideas curriculum encourages students to reflect on the origins of art and to engage in its contexts, whether productive or historical.

*Effective Winter 2018*

### Advising

134 Tyler (East Quadrangle)

(734) 763-0032

[www.lsa.umich.edu/rc](http://www.lsa.umich.edu/rc)

The Residential College (RC) is a four-year undergraduate liberal arts program with about 900 students and 60 faculty, situated within LSA. All RC advisors are RC faculty members and are available to meet with students to discuss RC and LSA requirements, possible majors, graduation requirements, etc. The RC [Board on Academic Standing](#) considers petitions submitted by RC students relating to requirements, deadlines, and academic circumstances. Appointments with academic advisors can be scheduled by calling the RC Academic Services Office at (734) 763-0032, or by stopping by the offices at 134 Tyler.

Students wishing to pursue a major program in Arts and Ideas in the Humanities must develop a specific plan for its completion in consultation with the program's designated advisor. Appointments may be scheduled at the RC Advising Office, 134 Tyler, East Quad, or by calling 734.763.0032.

### Prerequisites

None.

### Requirements

A minimum of five courses to be elected from (1) History and Theory and (2) Visual Studies, Performance and Studio Arts, completed by seven courses of Specialized Study. (Total: minimum of 12 courses)

1. **History and Theory:** There are two areas: (A) Historical Perspectives and (B) Issues of Modernity. Students take two courses in one area and one in the remaining area:

1. **Historical Perspectives**

- RCHUMS 309: Classical Sources of Modern Culture
- RCHUMS / ENVIRON 337: Children Under Fire: Narratives of Sustainability
- RCHUMS 338: Growing Up Near the Great Lakes: Reading and Writing Landscapes of Childhood
- RCHUMS 344 / HISTART 342: Reason and Passion in the 18th Century
- RCHUMS 346 / HISTART 352: Art and Philosophy in the Renaissance Tradition
- RCHUMS / AAS/ HONORS / WOMENSTD 354: Race and Identity in Music
- RCHUMS 371: Political Modernism: The Artist in the Nightmare of History: Picasso, Eliot, Orwell
- RCHUMS / ASIAN 373: The Performing Arts in South and Southeast Asia

2. **Issues of Modernity**

- RCHUMS 290: The Experience of Arts and Ideas of the 20th Century
- RCHUMS 291: The Experience of Arts and Ideas of the 19th Century
- RCHUMS 305: Cultural Confrontations in the Arts
- RCHUMS / ASIAN 308: Art and Culture: Arts and Ideas of South and Southeast Asia
- RCHUMS 318: Critical Approaches to Literature
- RCHUMS 342: Representing the Holocaust in Literature, Film and the Visual Arts
- RCHUMS 372: The Subject in the Aftermath of Revolution

2. **Visual Studies, Performance, and Studio Arts:** Two courses selected from one or more of the following areas.

1. **Film/Video**

- RCHUMS 217: Fathers and Sons
- RCHUMS 218: The Hero as Outsider, Outcast or Outlaw
- RCHUMS / SAC 236: Art of the Film
- RCHUMS / SLAVIC 312: Central European Cinema
- RCHUMS / SAC / SLAVIC 313: Russian and Ukrainian Cinema

2. **Dance**

- RCHUMS 235: Topics in World Dance

- RCHUMS 260 / DANCE 241: The Art of Dance: An Introduction to American and European Dance History
- RCHUMS 444: George Balanchine and the Transformation of American Dance

### 3. Studio Arts

- RCARTS 268: Introduction to Visual Thinking and Creativity
- RCARTS 269: Elements of Design
- RCARTS 285: Photography
- RCARTS 286: Sculpture
- RCARTS 287: Printmaking
- RCARTS 288: Beginning Drawing
- RCARTS 289: Ceramics

### 4. Music

- RCHUMS 249: Foundations of Music
- RCHUMS 250: Chamber Music
- RCHUMS 251: Topics in Music
- RCHUMS 252: Topics in Musical Expression
- RCHUMS 253: Choral Ensemble
- RCHUMS 256: Studying and Playing Southeast Asian Music
- RCHUMS 258: Afro-Cuban Drumming and Styles
- RCHUMS 259: Musical Improvisation
- RCHUMS 301: Beginning Indonesian Orchestra
- RCHUMS 302: Beginning Indonesian Orchestra
- RCHUMS 303: Indonesian Orchestra
- RCHUMS 350: Creative Musicianship
- RCHUMS 351: Creative Musicianship: Theory Lab
- RCHUMS 352: Found Instruments - Building, Design and Performance
- RCHUMS 356: The Symphonic Century: Music and Revolution in the 19th Century

3. **Specialized Study:** Seven upper-level courses (300 and above) distributed among two areas of focus. Four courses must be selected from one area and three in the remaining area. These areas and the specific courses considered appropriate for inclusion are determined by the student in consultation with the Arts and Ideas designated advisor. Possible areas of specialization include, for example: drama and anthropology; photography and history of art; literature and history; creative writing and African-American studies. However, no more than one of the two specializations may be in the practice of an art form.

### Honors

Qualified students may be admitted to a program of advanced study in the beginning or middle of the junior year. An Honors Thesis is required.

## Creative Writing and Literature (Major)

The [Residential College's Creative Writing and Literature Major](#) combines the sustained, disciplined practice of writing with the serious study of literature. The main goal of the program is to help students develop their creative abilities through a continuous, interrelated cycle of writing, rewriting, and literary analysis. Creative writing courses are taught as workshops and tutorials in which students work individually with faculty members. Students are required to take courses in literature in order to understand better the art of writing.

*Effective Winter 2013*

### Exclusions:

*Not open to those electing the minor in Writing or the minor in Creative Writing.*

### Advising

134 Tyler (East Quadrangle)

(734) 763-0032

[www.lsa.umich.edu/rc](http://www.lsa.umich.edu/rc)

The Residential College (RC) is a four-year undergraduate liberal arts program with about 900 students and 60 faculty, situated within LSA. All RC advisors are RC faculty members and are available to meet with students to discuss RC and LSA requirements, possible majors, graduation requirements, etc. The RC [Board on Academic Standing](#) considers petitions submitted by RC students relating to requirements, deadlines, and academic circumstances. Appointments with academic advisors can be scheduled by calling the RC Academic Services Office at (734) 763-0032, or by stopping by the offices at 134 Tyler.

### Prerequisites

None.

### Requirements

#### Minimum Credits: 30

Students wishing to pursue a sustained practice in creative writing take a combination of writing courses in a selected genre and literature courses, distributed as follows:

1. A minimum of four creative writing classes, three at the upper level (300 and above), mixing seminars (RCHUMS 220, 221, 222, 242, 320, 321, 322) and tutorials (RCHUMS 325, 326, 425, 426)
2. A minimum of five upper level (300 and above) literature courses at least one of which must be ancient (RCHUMS 309, CLCIV 390, ENGLISH 401) or medieval (RCHUMS 310, ENGLISH 370) literature.

## Crime and Justice (Minor)

The past thirty years have seen a dramatic increase in prison populations — fueled by the centrality of crime and fear of crime to American politics. This minor melds concepts from the history of crime

and criminal law, theories of crime and punishment, and societal circumstances that propel unequal demographics of criminality.

*Effective Fall 2014*

#### Exclusions:

*A minor in Crime and Justice is not open to students pursuing a major in the Department of Sociology nor to students majoring in Social Theory and Practice in the RC.*

*Students electing the Crime and Justice minor may not declare a minor in Law, Justice, and Social Change or a minor in History of Law and Policy.*

#### Advising

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#### RC academic minors are open to all LSA students

Students wishing to pursue an RC academic minor must develop a specific plan for its completion in consultation with each program's designated advisor. Appointments may be scheduled at the RC Academic Services Office, 134 Tyler, East Quad, or by calling (734) 763-0032.

#### Prerequisites

None for the Academic minor *per se*, although individual courses elected to meet the requirements of the minor may have course prerequisites.

#### Requirements

##### Minimum Credits: 15

A minimum of five courses (at least 15 credits), to be elected from categories as stated:

1. **Core Course:** SOC 368. Criminology
2. **Electives.** One course from each of the following three areas (at least two of which must be at the 300-level and above). **No more than three courses may be selected from any single department or program.**
  1. *Contexts and Social Perspectives on the Problems of Crime and Punishment*
    - AAS 262 / HISTORY 272: The Modern Civil Rights Movement
    - AAS 303 / SOC 303: Race and Ethnic Relations
    - AAS 322 / ENVIRON 335: Introduction to Environmental Politics: Race, Class and Gender

- AAS 324: Dealing with the Past : Doing Justice in Africa: South Africa, Rwanda, Sierra Leone
- AAS 330 / RCSSCI 330: Urban and Community Studies, I
- AAS 334 / AMCULT 336: Popular Culture in Contemporary Black America
- AAS 420 / ANTHRCUL 347: Race and Ethnicity
- AAS 426 Urban Redevelopment and Social Justice
- AAS 434 / SOC 434: Social Organization of Black Communities
- AAS 454 / ANTHRCUL 453 African-American Culture
- AMCULT 304 / SOC 304: American Immigration
- AMCULT 336 / AAS 334: Popular Culture in Contemporary Black America
- AMCULT 337: A Survey of American Blues Music
- AMCULT 369 / HISTORY 369: U.S. Mass Culture from Minstrelsy to Hip Hop
- AMCULT 374 / HISTORY 374: Politics and Culture of the "Sixties"
- AMCULT 399: Race in America
- AMCULT 421 / SOC 423: Stratification
- ANTHRCUL 347 / AAS 420: Race and Ethnicity
- ANTHRCUL 453 / AAS 454 African-American Culture
- ARCH 357 / UP 357 Architecture, Sustainability, and the City: Ideas, Force, and People Shaping the Built Environment
- CEE 307 / ENVIRON 407: Sustainable Cities
- COMM 318 / PSYCH 318: Media and Violence
- ENVIRON 222: Introduction to Environmental Justice
- ENVIRON 335 / AAS 322: Introduction to Environmental Politics: Race, Class and Gender
- ENVIRON 407 / CEE 307: Sustainable Cities
- ENVIRON 408: Land Use Policy, Law, and the Environment
- HISTORY 272 / AAS 262: The Modern Civil Rights Movement

- HISTORY 369 / AMCULT 369: U.S. Mass Culture from Minstrelsy to Hip Hop
  - HISTORY 374 / AMCULT 374: Politics and Culture of the “Sixties”
  - HISTORY 375 / WOMENSTD 375: History of Witchcraft: The 1692 Salem Trials in Historical and Cross-Cultural Perspective
  - PHIL 224: Global Justice
  - PHIL 355: Contemporary Moral Problems
  - POLSCI 307: Topics in American Political Thought
  - POLSCI 319 Politics of Civil Liberties and Civil Rights
  - PSYCH 318 / COMM 318: Media and Violence
  - RCSSCI 330 / AAS 330: Urban and Community Studies, I
  - SOC 303 / AAS 303: Race and Ethnic Relations
  - SOC 304 / AMCULT 304: American Immigration
  - SOC 423 / AMCULT 421: Stratification
  - SOC 434 / AAS 434: Social Organization of Black Communities
  - SOC 435: Urban Inequality and Conflict
  - UP 357 / ARCH 357 Architecture, Sustainability, and the City: Ideas, Force, and People Shaping the Built Environment
  - WOMENSTD 375 / HISTORY 375: History of Witchcraft: The 1692 Salem Trials in Historical and Cross-Cultural Perspective
2. *Disciplinary Studies of the Problems of Crime and Punishment*
- AAS 248: Crime, Race, and the Law
  - AAS 450 / 451: Law, Race and the Historical Process I, II
  - ANTHRCUL 333: Non-Western Legal Systems
  - ANTHRCUL 428 / WOMENSTD 428 / RCSSCI 428: Sex Panics in the U.S. and UK since 1890
  - COMM 425: Internet, Society, and the Law
  - HISTORY 256 / JUDAIC 265: Introduction to Jewish Law: Sources, Legal History, and Legal Theory
  - HISTORY 257 / JUDAIC 257: Law in the Pre-modern World
  - HISTORY 345 / RCSSCI 357: History and Theory of Punishment
  - HISTORY 477: Law, History, and the Dynamics of Social Change
  - HISTORY 496: History Colloquium (appropriate topics may count, with permission)
  - HISTORY 497: History Colloquium (*section titled “War on Crime / War on Drugs”*; other appropriate topics may count, with permission)
  - JUDAIC 257 / HISTORY 257: Law in the Pre-modern World
  - JUDAIC 265 / HISTORY 256: Introduction to Jewish Law: Sources, Legal History, and Legal Theory
  - PHIL 359: Law and Philosophy
  - POLSCI 364: Public International Law
  - PSYCH 488 / SOC 465 / WOMENSTD 465: Sociological Analysis of Deviance
  - RCSSCI 357 / HISTORY 345: History and Theory of Punishment
  - RCSSCI 428 / ANTHRCUL 428 / WOMENSTD 428: Sex Panics in the U.S. and UK since 1890
  - SOC 270 / WOMENSTD 270: Gender and the Law
  - SOC 454: Law and Society
  - SOC 465 / PSYCH 488 / WOMENSTD 465: Sociological Analysis of Deviance
  - WOMENSTD 270 / SOC 270: Gender and the Law
  - WOMENSTD 428 / ANTHRCUL 428 / RCSSCI 428: Sex Panics in the U.S. and UK since 1890
  - WOMENSTD 465 / PSYCH 488 / SOC 465: Sociological Analysis of Deviance
3. *Direct Encounters with the Problems of Crime and Punishment*
- ARTDES 312: Art Workshops in Prison
  - PSYCH 211: Project Outreach (appropriate sections)
  - RCCORE 301: Community-Based Internship – Semester in Detroit (appropriate placements) and  
RCCORE 302: Community-Based Internship Reflection Seminar
  - RCCORE 334: Special Topics *section titled “The Atonement Project”*

- RCHUMS 334: Special Topics in the Humanities *section titled "Theater and Incarceration"*
- THTREMUS 399: Topics in Drama *section titled "The Atonement Project"*

## Drama (Major)

The [RC Drama program](#) offers a unique course of study at U-M: the understanding of drama both as art form and literature. They learn to understand all the stages of the dramatic process - from the circumstances of a work's composition to the history of theater methods and presentation. Students attune their sense of theater aesthetic through practice and experimentation. They immerse themselves in the dramatic process as actors and directors as well as learning about all the aspects of production: costuming, scenery, lighting and sound design.

The Drama major is operated in collaboration with the Department of Theatre and Drama. The major combines the strengths and faculty resources of the RC and Theatre and Drama.

- The RC brings strengths in a humanities approach to drama and the dramatic arts, most notably in its Text-to-Performance orientation that combines the literary, the historical, and the theatrical.
- Theatre and Drama contributes expertise in design, production, and practicum work, thereby exposing students to the best of both worlds.

Both programs offer students a variety of hands-on experiences and opportunities to study, explore, and perform.

Students have the opportunity to explore the fields of dramaturgy, directing, the teaching of dramatic literature, and practical theatre as it relates to theory; and to study dramatic texts and experience performance and production. It consists of 35 credits that move from introductory courses to those along two distinct upper-level tracks. The major culminates in a play production capstone seminar that brings all the elements of this major into focus.

The Program regards drama as an art form that is both literary and theatrical, drawing on these and many other arts for its expression but claiming methods and purposes which are finally its own. A proper appreciation of drama requires the recognition and study of several stages in the making of a play, primarily those of the playwright and his conditions of work, the text and form of the play, the performance of the play, and the audience and society from which the play arises and to whom it is addressed. This demands a practical as well as a theoretical encounter with all the components of the dramatic experience. Accordingly, the method of study employed by the Drama Program combines active experiment and dynamic presentation with critical analysis and appropriate conditions for interpreting, enjoying, and evaluating the living work of dramatic art.

*Effective Fall 2015*

### Advising

134 Tyler (East Quadrangle)

(734) 763-0032

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All RC advisors are RC faculty members and are available to meet with students to discuss RC and LSA requirements, possible majors, graduation requirements, etc. The [RC Board on Academic Standing](#) considers petitions submitted by RC students relating to requirements, deadlines, and academic circumstances. Appointments with academic advisors can be scheduled by calling the RC Academic Services Office at (734) 763-0032, or by stopping by the offices at 134 Tyler.

### Prerequisites

None.

### Requirements

#### Minimum Credits: 35

1. *Theater History sequence:* THTREMUS 321 and 322
2. *Fundamentals of acting and script analysis:*
  1. One of RCHUMS 281 or RCHUMS 282
  2. One of THTREMUS 101 or 110 or 102
3. *The Senior Capstone.* RCHUMS 481.
4. *Category Requirement.* Five courses, with at least two in each category, for a total of at least 18 credits
  1. *Actor and Text.* Choose at least two from:
    - RCHUMS 383, 387, 389, 390, 483, 485
    - THTREMUS 233, 323
    - AAS 342
    - ENGLISH 349
  2. *Design and Production.* Choose at least two from:
    - RCHUMS 482
    - THTREMUS 227, 240, 241, 250, 251
    - ENGLISH 227

### Other Department Policies

**RC Players.** The RC Players is a student-run theater organization that provides students all over campus with the opportunity to showcase their talent in acting, directing, producing, and more. RC Players provide leadership opportunities and venues for creative and dramatic expression through its various student-written and published theatrical pieces in East Quad. Past productions have included Evenings of Scenes, premieres of original student-written works, student-senior theses that reflect and re-enact their undergraduate experiences, various experimental texts, and the modestly (in)famous Kamikaze Theater. We are open to all students across campus, but provide the unique advantage to become active and creative within the East Quad and RC community, even without any prior experience. [www.umich.edu/~rcplayer/](http://www.umich.edu/~rcplayer/)

**Shakespeare in the Arb.** A theater production of the LSA Residential College that moves through different areas of the Nichols Arboretum. The unique experience of Shakespeare in the Arb comes from the environmental staging of the plays. There is no fixed stage—instead, the audience follows the action through different locations in the Arboretum. The staging takes advantage of the vistas and valleys, the special arrangements of the natural settings. Performances held Thursday-Sunday evenings in June. This beloved annual tradition is eagerly anticipated by the community and commands sold-out



performances. <http://www.lsa.umich.edu/rc/currentstudents/shakespeareinthearb>

**German Theatre Program.** U-M RC Deutsches Theater is part of the RC Intensive German Language Program. It has staged plays in German annually since 1985. The group travels to Munich or Berlin each year to see theater. <http://www-personal.umich.edu/~jshie/>

## Drama - Text-to-Performance (T-t-P) (Minor)

Students in this academic minor learn about the complete process from how a theater text evolves into a fleshed-out performance. The program teaches students a variety of different theatrical styles - both in textual expression and dramatic interpretation and exposes them to a breadth of original texts. Directorial methods, acting methods, scenery are all covered to help students create different and alternative connections between a piece's original message and the voice they would give it.

*Effective Fall 2012*

### Exclusions:

*Not open to students pursuing an academic minor or major in the Department of Theatre and Drama.*

### Advising

134 Tyler (East Quadrangle)  
(734) 763-0032  
[www.lsa.umich.edu/rc](http://www.lsa.umich.edu/rc)

Students wishing to pursue an academic minor in Text-to-Performance must develop a specific plan for its completion in consultation with the program's designated advisor.

The Residential College (RC) is a four-year undergraduate liberal arts program with about 900 students and 60 faculty, situated within LSA. All RC advisors are RC faculty members and are available to meet with students to discuss RC and LSA requirements, possible majors, graduation requirements, etc. The RC [Board on Academic Standing](#) considers petitions submitted by RC students relating to requirements, deadlines, and academic circumstances. Appointments with academic advisors can be scheduled by calling the RC Academic Services Office at (734) 763-0032, or by stopping by the offices at 134 Tyler

### Prerequisites

None for the Academic Minor *per se*, although individual courses elected to meet the requirements of the Academic Minor may have course prerequisites.

### Requirements

#### Minimum Credits: 15

A minimum of 5 courses (at least 15-20 credits), to be elected from categories as stated:

1. **Core Courses** (both are required, and must be taken in sequence; ideally, the electives should be completed in the interval between taking RCHUMS 281 and 481):
  1. RCHUMS 281: Introduction to Comedy and Tragedy
  2. RCHUMS 481: Play Production Seminar.
2. **Electives.** Each student will select three electives in consultation with the T-t-P advisor. One course must be from Group A and two courses from Group B.
  1. *Texts and Scenes*
    - RCHUMS 380: Greek Theatre.
    - RCHUMS 381: Shakespeare on the Stage.
    - RCHUMS 382: Molière and His Theatre.
    - RCHUMS 383: Ibsen and Strindberg.
    - RCHUMS 385: The Theatre of Bertolt Brecht.
    - RCHUMS 389: The Modern Theatre.
    - RCHUMS 390: Special Period and Place Drama.
  2. *The Varieties of Literature for the Theatre*
    - RCHUMS 386 / MEMS 421: Medieval Drama.
    - AAS 341 / THTREMUS 222: Introduction to Black Theatre.
    - AAS 342 / THTREMUS 233: Acting and the Black Experience.
    - ASIAN 310: The Theater of China and Japan.
    - CLCIV 386: Greek Drama.
    - ENGLISH 267: Introduction to Shakespeare.
    - ENGLISH 349 / THTREMUS 323: American Theatre and Drama.
    - ENGLISH 367 / MEMS 367: Shakespeare's Principal Plays.
    - ENGLISH 368 / MEMS 368: Shakespeare and his Contemporaries.
    - ENGLISH 445: Shakespeare's Rivals.
    - ENGLISH 446: World Drama: Congreve to Ibsen.
    - ENGLISH 447: Modern Drama.
    - ENGLISH 448: Contemporary Drama.
    - GERMAN 320: German Expressionism in English Translation.
    - GERMAN 360: Art and Politics in the Weimar Republic.
    - GERMAN 381: Eighteenth to Nineteenth-century Drama.
    - GERMAN 382: Nineteenth to Twentieth-century Drama.
    - MEMS 367 / ENGLISH 367: Shakespeare's Principal Plays.
    - MEMS 368 / ENGLISH 368: Shakespeare and his Contemporaries.
    - MEMS 421 / RCHUMS 386: Medieval Drama.
    - ITALIAN 471: Italian Theater.
    - SPANISH 425: Latin-American Theater.
    - SPANISH 460: The Spanish Comedia.

- SPANISH 468: Modern Spanish Theater.
- RUSSIAN 463: Chekhov.
- THREMUS 222 / AAS 341: Introduction to Black Theatre.
- THREMUS 233 / AAS 342: Acting and the Black Experience.
- THREMUS 323 / ENGLISH 349: American Theatre and Drama.
- THREMUS 324: Contemporary Black Theatre.
- THREMUS 332: Performing Gender: Drama from Oral Sources.
- THREMUS 402: Ideas of Theatre: Dramatic Theory and Criticism.

## Science, Technology, and Society (STS) (Minor)

Technology often precipitates the most drastic, most revolutionary changes in how societies and cultures engage one another. The Science, Technology, and Society (STS) minor helps students see beyond the veneer of policy issues to learn about the raw changes in our tools and methods. STS studies the ethical, environmental, and social implications of new tools and methods – and how these affect the developing world.

The minor helps students learn about such issues as:

- How science, technology, and medicine shape modern societies
- How social and political forces, choices, and values affect science, technology, and medicine
- How the social dynamics of science, technology, and medicine differ among world societies
- How issues of gender, race, and class appear in science, technology, and medicine

Students electing the STS minor learn multiple methods for studying and solving boundary-spanning problems, including not only those in traditional discipline-based approaches, but also in interdisciplinary and experimental ones.

*Effective Winter 2016*

### Exclusions:

Not open to students with a minor in [Medical Anthropology](#) or [History of Medicine and Health](#).

### Advising

Students wishing to pursue a minor in Science, Technology, and Society must develop a specific plan for its completion in consultation with the program's designated advisor. Please use our [LSA online advising system](#) to schedule an appointment with the STS Undergraduate Director.

### Prerequisites

None for the minor *per se*, although individual courses elected to meet the requirements of the minor may have course prerequisites.

### Requirements

#### Minimum Credits: 15

A minimum of 15 credits (and at least 5 courses), to be chosen from the list of approved STS courses:

**Core course:** RCSSCI 275 / HISTORY 285.

**Electives.** A minimum of 3 courses in a chosen focus track (Science; Technology; Medicine).

Courses on science, technology, and society are offered by many different departments and programs in LSA as well as in other colleges of the university. Only courses specifically approved by the STS Program may be counted toward the minor. There are presently no provisions for exceptions to this rule. An up-to-date list of currently approved courses is available at the STS Program [website](#).

#### Constraints

No course may be counted simultaneously toward both STS and any other minor.

At least one course must be at the 300 level or above.

Only one course at the 100 level is permitted.

Students may not declare the STS minor later than the first week of the first term of their senior year.

## Social Theory and Practice (Major)

The major in Social Theory and Practice supports students in developing the analytical and practical skills necessary for active engagement in the world and for building careers that promote equality and responsible citizenship. Students learn theories, methods, and strategies that enable them to understand and critique social structures and processes and to become effective actors in struggles for justice.

Students wishing to pursue a problem-centered interdisciplinary program in the social sciences must develop a plan for the major in consultation with department advisors. The STP major is an interdepartmental major that requires students to explicitly propose and pursue an individualized course of study that reflects broad social science perspectives. Through a curricular proposal created typically in the fall of the sophomore (or junior) year, STP students articulate a series of social issues and thematic threads which they will pursue through subsequent theoretical and experiential coursework. Consequently the STP major combines the freedom and responsibility of the Individualized Major Program within an institutional umbrella.

*Effective Fall 2015*

### Advising

134 Tyler (East Quadrangle)

(734) 763-0032

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The Residential College (RC) is a four-year undergraduate liberal arts program with about 900 students and 60 faculty, situated within LSA. All RC advisors are RC faculty members and are available to meet with students to discuss RC and LSA requirements, possible majors, graduation requirements, etc. The RC [Board on Academic Standing](#) considers petitions submitted by RC students relating to requirements, deadlines, and academic circumstances. Appointments with academic advisors can be scheduled by calling the RC Academic

Services Office at (734) 763-0032, or by stopping by the offices at 134 Tyler.

### Prerequisites

RCSSCI 260: Understanding Power, Theorizing Knowledge and RCSSCI 290, a one credit course taken in the same academic term that helps develop a prospectus for the major.

One other “gateway” course, either an RCSSCI 200 level course or another course chosen in consultation with the STP department advisor. The aim of the gateway course is to introduce students to issues and approaches in the social sciences as well as to the ways questions are framed from different disciplinary perspectives.

### Requirements

#### Minimum Credits: 29

Complete the following non-overlapping groupings:

1. **Required Institutional Framework Courses:**
  1. **Core Course:** RCSSCI 301.
  2. **Quantitative Methods:** at least one, typically STATS 250 or 280, SOC 310 or 312, or ECON 251 ( or 404 elected prior to Winter 2015).
  3. **Research Seminar:** RCSSCI 460, in which the student completes a Senior Project or Senior Thesis.
2. **Thematic Courses.** A minimum of six courses (and at least 18 credits) at the upper level (300 and above). Students are directed to consider how to create a cohesive union of theory, practice, and other course work that reflects the unique set of social issues they are attempting to understand. The thematic coursework must be conceptualized and defended by the student, be chosen in consultation with the advisor, and be organized in the following manner:
  1. **Social Theory:** At least 3 additional social theory credits
  2. **Community Engagement:** At least 3 approved “practicum” credits. Acceptable practicum courses require some form of community engagement beyond the classroom, in addition to regular critical reflection on that engagement. Examples include Project Outreach courses, Practicum in Sociology courses, the RC Spanish Language Internship Program, The RC Telling It Program, the RC Semester in Detroit Program, the Prison Creative Arts Project, some sections of RCSSCI 360, RCSSCI 461, and RCIDIV 302.
  3. **Additional electives**

RCSSCI 460 does not count toward this requirement.

## Urban Studies (Minor)

The goal of the Urban Studies minor is to facilitate students active engagement with local communities while fostering the integration of their practical experience with classroom instruction. UCS is an interdisciplinary minor that allows students to explore varied and multiple dimensions of urban and community life through differing theoretical approaches. In addition to coursework in the social sciences and humanities, the minor combines theoretical and analytical concepts from African American studies, social work, urban studies,

and other fields to help students understand the challenges of urban life and to expand their capacity for civic engagement and community work.

*Effective Fall 2015*

### Advising

134 Tyler (East Quadrangle)  
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[www.lsa.umich.edu/rc](http://www.lsa.umich.edu/rc)

The Residential College (RC) is a four-year undergraduate liberal arts program with about 900 students and 60 faculty, situated within LSA. All RC advisors are RC faculty members and are available to meet with students to discuss RC and LSA requirements, possible majors, graduation requirements, etc. The RC Board on Academic Standing considers petitions submitted by RC students relating to requirements, deadlines, and academic circumstances. Appointments with academic advisors can be scheduled by calling the RC Academic Services Office at (734) 763-0032, or by stopping by the offices at 134 Tyler.

### RC academic minors are open to all LSA students

Students wishing to pursue an RC academic minor must develop a specific plan for its completion in consultation with each program's designated advisor. Appointments may be scheduled at the RC Academic Services Office, 134 Tyler, East Quad, or by calling (734) 763-0032.

### Prerequisites

None for the minor *per se*, although individual courses elected to meet the requirements of the minor may have course prerequisites.

### Requirements

#### Minimum Credits: 16

A minimum of 5 courses (at least 16 credits), to be elected from categories as stated:

1. **Core Course:** One of the following:
  - RCSSCI 330: Urban and Community Studies I, *section titled "Historical and Theoretical Perspectives."*
  - UP 425: Urban Systems
2. **Electives.** Each student will select four electives (no more than one course below the 300 level) from three Categories of courses: **Group A** (Theory / Perspectives), **Group B** (Policy / Technique) and **Group C** (Applications / Practice). No more than two electives may be selected from any one group.

**Group A Theory/Perspectives** - Courses that present intellectual background for the study of urban communities. Drawn from history, sociology, political science, and other disciplines, these courses introduce students to disciplinary and theoretical perspectives on community formation and urban life, and they provide opportunities for students to think through differing and at times competing analytical approaches.

- AAS 332 / ENVIRON 336 / NRE 336: Environment and Inequality
- AAS 434 / SOC 434: Social Organization of Black Communities
- AAS 358: Topics in Black World Studies, *section subtitled "Asians and Blacks in Detroit"*

- AAS 426: Urban Redevelopment and Social Justice
  - AAS 443 / WOMENSTD 443: The Pedagogy of Empowerment: Activism in Race, Gender, and Health
  - AAS 495: Senior Seminar, *section titled "Race and the City in American Culture"*
  - AMCULT 301: Topics in American Culture, *section titled "Detroit Politics and Community Organizing"*
  - AMCULT 305: Asian Pacific American Community Service and Learning, *section titled "Asians and Blacks in Detroit"*
  - AMCULT 399: Race, Racism, and Ethnicity
  - ANTHRCUL 438: Urban Anthropology
  - ANTHRCUL 446 / WOMENSTD 446: Sex and the City: Urban Geography and Sexual Locations
  - ARCH 443 / UP 443: History of Urban Form
  - ARCH 519 / UP 519: Theories of Urban Design
  - ENVIRON 336 / AAS 332 / NRE 336: Environment and Inequality
  - HISTORY 344 / RCSSCI 344: History of Detroit in the 20th Century
  - HISTORY 302: Topics in History, *section titled "Mapping Black Detroit"*
  - HISTORY 364: History of Suburbia
  - HISTORY 468: Topics in U.S. History, *section titled "Asians and Blacks in Detroit"*
  - HISTORY 393: Topics in US History, *section titled "Detroit Politics and Community Organizing"*
  - NRE 336 / AAS 332 / ENVIRON 336: Environment and Inequality
  - NRE 573 / UP 573: Urban and Regional Theory
  - POLSCI 327: The Politics of the Metropolis
  - RCSSCI 344 / HISTORY 344: History of Detroit in the 20th Century
  - RCSSCI 345: Community Strategies Against Poverty
  - SOC 434 / AAS 434: Social Organization of Black Communities
  - SOC 435: Urban Inequality and Conflict
  - UP 443 / ARCH 443: History of Urban Form
  - UP 519 / ARCH 519: Theories of Urban Design
  - UP 521: The Social Life of Public Spaces
  - UP 568: Real Estate and Urban Development
  - UP 573 / NRE 573: Urban and Regional Theory
  - UP 655: Neighborhood Planning (*requires instructor approval for undergraduates*)
  - WOMENSTD 443 / AAS 443: The Pedagogy of Empowerment: Activism in Race, Gender, and Health
  - ANTHRCUL 446 / WOMENSTD 446: Sex and the City: Urban Geography and Sexual Locations
- \*Note: RCSSCI 330: Urban and Community Studies: Historical and Theoretical Perspectives, may be included as an elective under Category A, provided a student has taken UP 425: Urban Studies, to meet the core course requirement
- Group B Policy/Technique** - Courses that provide an introduction to urban planning and policy making as it bears upon urban communities, including issues of the environment, land management, economic development, transportation, and sustainability.
- GEOG 406 / UP 406: Introduction to Geographic Information Systems
  - GEOG 472 / UP 572: Transportation and Land Use Planning
  - NRE 592 / UP 502: Environmental Planning: Issues and Concepts
  - PUBPOL 652 / UP 652: Strategic Thinking for Affordable Housing
  - SW 655 / UP 655: Neighborhood Planning
  - UP 406 / GEOG 406: Introduction to Geographic Information Systems
  - UP 502 / NRE 592: Environmental Planning: Issues and Concepts
  - UP 507: Geographic Information Systems
  - UP 510: Public Economics for Urban Planning
  - UP 520: Urban Land Use Planning
  - UP 522: State and Local Land Management
  - UP 523: Regional Planning
  - UP 527: Infrastructure Planning in the US & Developing Countries
  - UP 532: Sustainable Development: Resolving Economic and Environmental Conflicts
  - UP 537: Housing Policy and Economics
  - UP 538: Economic Development Planning
  - UP 539: Methods for Economic Development Planning
  - UP 572 / GEOG 472: Transportation and Land Use Planning
  - UP 652 / PUBPOL 652: Strategic Thinking for Affordable Housing
  - UP 655 / SW 655: Neighborhood Planning
  - UP 656: Central-City Planning and Community Development
  - UP 658: Urban and Regional Planning in Developing Countries
  - UP 671: Public Policy and Transportation
- \*Note: UP 423 / ARCH 423 / ENVIRON 370: Introduction to Urban and Environmental Planning, may be included as an

elective under Category B, provided a student has taken RCSSCI 330: Urban and Community Studies: Historical and Theoretical Perspectives, to meet the core course requirement.

**Group C Applications/Practice** — Courses that give students direct exposure to community settings and foster the integration of theoretical and policy planning knowledge and practical experience. Through specific engagements with urban and community issues, students experience and examine how theoretical and academic frameworks get applied to in urban contexts. Prominent among these will be "field work" or "field study" courses — that is, courses in which students work in community settings.

- AAS 358: Topics in Black World Studies, *section titled "Urban and Community Studies II"*
- AAS 634 / SOC 634: The Urban Ethnographic Tradition: Theory, Method, Standpoint (*requires instructor approval for undergraduates*)
- AMCULT 306 / PSYCH 317: Community-Based Research
- AMCULT 310: Topics in Ethnic Studies, *section titled "Race, Politics, and Activism in Detroit"*
- AMCULT 319 / PSYCH 319: Empowering Families and Communities
- AMCULT 321 / PSYCH 325: Practicum in the Multicultural Community
- HISTORY 393: Topics in U.S. History, *section titled "Race, Politics, and Activism in Detroit"*
- POLSCI 496: Undergraduate Seminar in American Government and Politics, *section titled "Senior Seminar in Urban Research"*
- PSYCH 317 / AMCULT 306: Community-Based Research
- PSYCH 319 / AMCULT 319: Empowering Families and Communities
- PSYCH 325 / AMCULT 321: Practicum in the Multicultural Community
- RCCORE 301: Internships with Semester in Detroit
- RCCORE 309: Study Off-Campus, *section titled: "Spanish Language Internship Program"*
- RCHUMS 334: Special Topics in the Humanities, *sections titled: "Writing in Detroit;" "Empowering our Communities through Creative Expression;" or "Telling it: Community-Based Arts and Literature"*
- RCLANG 334: Tutoring Latinos in the Community
- \* RCSSCI 360: Social Science Junior Seminar, *section titled "Urban and Community Studies II"*
- \* RCSSCI 460: Social Science Senior Seminar, *section titled "Social and Political Movements in Post-War Detroit"*
- \* SOC 389: Practicum in Sociology
- SOC 634 / AAS 634: The Urban Ethnographic Tradition: Theory, Method, Standpoint (*requires instructor approval for undergraduates*)

- WOMENSTD 350: Women and the Community
- WOMENSTD 351: Women and the Community II

\* SOC 389, RCSSCI 360, and RCSSCI 460 are topics courses, therefore not all offerings under these numbers will be approved. Students will be allowed to count toward the minor only the particular offerings with the subtitles listed above (or others that are relevant to urban and community studies).

# Romance Languages and Literatures

The Department offers majors in French, Italian, Romance Languages & Literatures, and Spanish. It offers minors in French, Italian, Portuguese, and Spanish. We remind you that you may major or minor in a Romance language, but not both.

When combined with study in another field, knowledge of a Romance language will open doors to a wide variety of career and educational opportunities. Today, learning of other languages, peoples, and cultures is not only useful, it is imperative.

## French and Francophone Studies (Major)

Major in French allows students considerable flexibility in developing a program of study leading to competence in the French language and basic familiarity with French and Francophone cultures and literatures.

*Effective Fall 2017*

### Advising

The Department offers majors in French, Italian, Romance Languages & Literatures, and Spanish. It offers minors in French, Italian, Portuguese, and Spanish.

Appointments are scheduled [online](#) or at the department office, 4108 Modern Languages Building, (734) 764-5344.

### Prerequisites

FRENCH 230 or 232 with a grade of C- or higher; or RCLANG or 310, or assignment by placement test.

### Requirements

#### Minimum Credits: 33

FRENCH 235 and a minimum of 30 credits in French and Francophone Studies courses numbered FRENCH 240 and above. Of these, a minimum of 18 credits must be numbered 300 or above, or equivalent. A maximum of two courses in the major may be chosen from courses taught in English without language prerequisites. A minimum of 15 of the required 30 credits must be taken either in residence or through a study abroad program affiliated with the University of Michigan.. Majors must take one of the following courses in RLL at the Ann Arbor campus: FRENCH 340-379, 391-392, 402, 450-499.

To ensure that French majors and minors gain a broad range of knowledge in the French language, literature, and culture, a maximum of nine credits from FRENCH 380, 381, and 414 as well as any of their equivalents accepted as transfer and/or study abroad credit can count toward the major or minor.

French majors are encouraged to elect courses related to their field of study outside of the department and to consider the possibility of studying abroad.

Students pursuing graduate studies in French should be aware that most graduate programs expect substantial preparation in literature. For this reason, students interested in earning a graduate degree in French should give particular consideration, in choosing their courses, to FRENCH 270-274, 362-369, 378, and 400-level courses in literature and culture.

### Honors

Qualified students may be admitted to a program of advanced study during their junior year (or at the beginning of the senior year following foreign study), leading to the degree of Bachelor of Arts with Honors in French. Admission to senior-level Honors work in French is by application only (forms are available on the department website at [www.lsa.umich.edu/rll](http://www.lsa.umich.edu/rll)). A grade point average of at least 3.5 in all courses, as well as in all French and Francophone courses, is required for admission and for graduation with Honors in French. The Honors Committee expects applicants to demonstrate superior ability for their level in both oral and written French, and to present evidence of serious interest in research.

French and Francophone Studies Honors majors are required to complete 36 credits of coursework and successfully defend a thesis:

### Course Requirements:

All regular French major requirements must be completed (33 credits) with 3 additional credits at the 300 level or above. 6 of the required 36 credits will consist of French 491 and 492, Senior Honors Courses, normally taken in the fall and winter terms, respectively, of a student's senior year.

### Thesis Requirement:

Composition of a thesis, in French, incorporating the results of individual research, demonstrating a substantial piece of work; and

A presentation and discussion of the thesis and of an agreed upon set of related readings with the student's faculty advisor and one other faculty reader.

Working under the direction of a faculty member who serves as thesis director, the student will research the thesis, complete a bibliography and prospectus, and begin drafting the writing process while enrolled in FRENCH 491. In the following academic term the student will enroll in FRENCH 492 and complete the thesis and its presentation and discussion.

### Teaching Certificate

#### Major Requirements in French and Francophone Studies for Students Preparing Teacher Certification.

Candidates for a secondary school teaching certificate should consult the [website](#) of the School of Education.

FRENCH 235 and a minimum of 30 credits in French and Francophone Studies courses numbered FRENCH 240 and above. Of these, a minimum of 18 credits must be numbered 300 or above, or equivalent. FRENCH 333, 335, and 438 are required (438 must be elected as EDCURINS 456 and will not count in the 30 credits). Only one course in the major may be chosen from courses taught in English without language prerequisites. A minimum of 18 of the required 33 credits must be taken either in residence or through a study abroad program affiliated with the University of Michigan.

## French and Francophone Studies (Minor)

If you are majoring in another field, the French and Francophone Studies minor offers you an opportunity to complement the knowledge gained in your principal field, while adding a cultural and linguistic dimension to your academic experience.

*Effective Winter 2017*

#### Exclusions:

*The French and Francophone Academic minor is not open to students with a French major or any other minor in Romance Languages and Literatures.*

#### Advising

Appointments are scheduled [online](#) or at the department office, 4108 Modern Languages Building, (734) 764-5344.

#### Prerequisites

FRENCH 230 or 232 with a grade of C- or higher; or RCLANG 290 or 310, or assignment by placement test.

#### Requirements

##### Minimum Credits: 21

FRENCH 235 and 18 credits of courses in FRENCH numbered FRENCH 240 and above, with a minimum of 9 credits at the 300 level.

#### Constraints

Of the required 21 credits:

- No more than one French course taught in English without language prerequisites
- One of the French Cultural and Literary Studies courses in RLL at the Ann Arbor Campus: FRENCH 340-379, 391-392, 402, 450-499.
- At least 12 of the 21 credits for the Academic Minor must be taken in residence or in a study abroad program affiliated with the University of Michigan.
- To ensure that French majors and minors gain a broad range of knowledge in the French language, literature, and culture, a maximum of **nine** credits from FRENCH 380, 381, and 414, as well as any of their equivalents accepted as transfer and/or study abroad credit, can count toward the major or minor.

#### Italian (Major)

Major in Italian allows students considerable flexibility in developing a program of study leading to competence in the Italian language and basic familiarity with Italian literature and culture.

*Effective Fall 2017*

#### Advising

The Department offers majors in French, Italian, Romance Languages & Literatures, and Spanish. It offers minors in French, Italian, Portuguese, and Spanish.

Appointments are scheduled [online](#) or at the department office, 4108 Modern Languages Building, (734) 764-5344.

#### Prerequisites

ITALIAN 230, 232, or 233; or the equivalent.

#### Requirements

##### Minimum Credits: 30

- A minimum of 30 credits in Italian courses numbered ITALIAN 235 and above.

- 18 credits must be conducted in the target language of Italian. Of these, at least one course must be at the 200-level beyond 233, at least one at the 300-level, and at least two at the 400-level.
- Two courses must be focused on Italian literature and/or culture of periods prior to 1900.
- Three credits may be accepted from courses in a cognate field, selected in consultation with and approved by the department advisor.
- ITALIAN 410 (Italian for Spanish Speakers) does not count toward the Italian requirements for the major.

#### Residency

A minimum of 15 of the required 30 credits must be taken either in residence or through a study abroad program affiliated with the University of Michigan. At least one course at either the 300- or 400-level, taught in Italian, must be taken in RLL at the Ann Arbor campus.

Italian majors are encouraged to consider study abroad programs with an emphasis on Italian immersion. For information on receiving credit for study abroad in other programs, consult the department advisor.

#### Honors

Qualified students may be admitted to a program of advanced study during their junior year (or at the beginning of the senior year following foreign study), leading to the degree of Bachelor of Arts with Honors in Italian. Admission to senior-level Honors work in Italian is by application only (forms are available on the department website at [www.lsa.umich.edu/rll](http://www.lsa.umich.edu/rll)). A grade point average of at least 3.5 in all courses, as well as in all Italian courses, is required for admission and for graduation with Honors in Italian. The Honors Committee expects applicants to demonstrate superior ability for their level in both oral and written Italian, and to present evidence of serious interest in research.

Italian Honors majors are required to complete 33 credits of coursework and successfully defend a thesis:

#### Course Requirements:

All regular Italian major requirements must be completed (30 credits) with 3 additional credits at the 300 level or above. 6 of the required 33 credits will consist of ITALIAN 491 and 492, Senior Honors Courses, normally taken in the fall and winter terms, respectively, of a student's senior year.

#### Thesis Requirement:

Composition of a thesis, in Italian, incorporating the results of individual research, demonstrating a substantial piece of work; and

A presentation and discussion of the thesis and of an agreed upon set of related readings with the student's faculty advisor and one other faculty reader.

Working under the direction of a faculty member who serves as thesis director, the student will research the thesis, complete a bibliography and prospectus, and begin drafting the writing process while enrolled in ITALIAN 491. In the following academic term the student will enroll in ITALIAN 492 and complete the thesis and its presentation and discussion.

## *Italian (Minor)*

The objectives of the minor in Italian are to develop some facility in the use of Italian, to recognize major monuments of Italian literature, and to gain insight in to the history and present of Italian culture.

This minor offers students an opportunity to complement the knowledge gained in their principal field while focusing on linguistic competence and a grounding in one of the world's most historically influential, currently vibrant literatures and cultures.

*Effective Fall 2016*

#### **Exclusions:**

*The minor in Italian is not open to students with an Italian major or any other minor in Romance Languages and Literatures.*

#### **Advising**

The Department offers majors in French, Italian, Romance Languages & Literatures, and Spanish. It offers minors in French, Italian, Portuguese, and Spanish.

Appointments are scheduled [online](#) or at the department office, 4108 Modern Languages Building, (734) 764-5344.

#### **Prerequisites**

ITALIAN 230, 232, or 233; or the equivalent

#### **Requirements**

##### **Minimum Credits: 18**

18 credits of courses in ITALIAN numbered ITALIAN 235 or higher, of which four courses must be conducted in the Italian language.

The 18 credits must include at least one course each at the 200-level beyond ITALIAN 233, the 300-level, and the 400-level.

#### **Constraints**

ITALIAN 410 (Italian for Spanish Speakers) does not count toward the Italian minor requirements.

#### **Residency**

At least 10 of the 18 credits for the Academic Minor must be taken in residence or in a study abroad program affiliated with the University of Michigan. At least one course at either the 300- or 400-level, taught in Italian, must be taken in RLL at the Ann Arbor campus.

## **Portuguese (Minor)**

Portuguese is one of the 10 most widely spoken languages in the world uniting approximately 250 million speakers throughout several continents including Brazil, Portugal, Angola, Mozambique, Cape Verde, Guinea-Bissau, São Tomé & Príncipe, and East Timor. It is also the language of immigrant communities in North America, Central Europe, South Africa, and in the Asia/Pacific region.

Students can select language courses from the beginning level, PORTUG 101-102, through 231-232 or 415. The entire Portuguese program has been revamped, with the creation of 8 new courses emphasizing the whole of the Portuguese-speaking world: Brazil, Portugal, and Lusophone Africa.

The objectives of the Portuguese minor are to facilitate students' proficiency and knowledge acquisition in the Portuguese language and on the cultures of the Lusophone (or Portuguese-speaking) world, namely, Angola, Brazil, Cape Verde, Mozambique, Guinea-Bissau, Portugal, and São Tomé and Príncipe. This minor offers students the opportunity to complement the knowledge gained in their principal

field while focusing on linguistic competence and a grounding in one of the world's most spoken languages and its greatly diverse cultures. In addition to enhanced career opportunities, it also fosters critical thinking skills in relationship to cultures other than their own.

The Portuguese minor would attract undergraduate students at the University of Michigan from a variety of disciplines, ranging from the humanities and social sciences to the business school and the health sciences, who wish to complement their degree studies with proficiency in the Portuguese language as well as a solid knowledge foundation of Lusophone countries.

When combined with study in another field, knowledge of a Romance language will open doors to a wide variety of career and educational opportunities. Today, learning of other languages, peoples, and cultures is not only useful, it is imperative.

*Effective Fall 2015*

#### **Advising**

Appointments are scheduled [online](#) or at the department office, 4108 Modern Languages Building, (734) 764-5344.

#### **Prerequisites**

One of: PORTUG 232, 280, or 415, or the equivalent.

#### **Requirements**

##### **Minimum Credits: 18**

A minimum of 18 credits beyond PORTUG 232. PORTUG 287: Advanced Portuguese Conversation and Composition is required; students must choose PORTUG courses beyond PORTUG 287 for the remaining part of the course work.

#### **Constraints**

Neither PORTUG 280 nor PORTUG 415 may be counted toward the 18 credits for the Portuguese minor.

Students pursuing the minor in Portuguese may petition to have up to three courses (no more than 9 credits) from other units (for example, History, Afro-American and African Studies, as well as Latin American and Caribbean Studies), taught in English, which have a Brazilian, Lusophone African, and/or Portuguese focus to count for the minor. Courses from outside the PORTUG subject be approved in advance by a Portuguese advisor in the department of Romance Languages & Literatures.

#### **Residency**

At least 9 of the 18 credits for the minor must be taken in residence or in a study abroad program affiliated with the University of Michigan.

## **Romance Languages and Literatures (Major)**

Majoring in Romance Languages and Literatures allows students to include more than one Romance language in a program of study that also encourages them to discover and to make connections between the Romance languages and cultures that they choose to pursue. All students should consult with a department advisor to develop a program of study that best corresponds to their interests and career plans.

*Effective Fall 2017*

#### **Advising**



The Department offers majors in French, Italian, Romance Languages & Literatures, and Spanish. It offers minors in French, Italian, Portuguese, and Spanish.

Appointments are scheduled [online](#) or at the department office, 4108 Modern Languages Building, (734) 764-5344.

### Prerequisites

Same as those for majors in the individual languages:

- FRENCH 230 or 232 for students of French
- ITALIAN 230, 232 or 233 for students of Italian
- PORTUG 232 or 280 for students of Portuguese
- SPANISH 277 for students of Spanish

In addition, upper-level courses have the following prerequisites:

- Two French courses FRENCH 250-299 for most French courses 300 and above
- ITALIAN 230, 232 or 233 for other major-level Italian courses
- PORTUG 287 for other minor-level Portuguese courses
- Three 279-399-level Spanish courses for most 400-level Spanish courses

### Requirements

#### Minimum Credits: 39

At least 39 credits consisting of the following:

I. A minimum of 33 credits of coursework from French, Italian, Portuguese, Spanish, or Catalan. All of these courses must be taught in the target language and must also be courses that would count toward the individual language majors and minors. Students will choose two principal Romance languages and take a minimum of 12 credits in each. In each of these two languages, 6 credits in upper-level coursework are required ("upper-level" means: 300 or above in French and Italian, 400 or above in Portuguese, Spanish, and Catalan). Students have the option of taking up to 9 credits in a third romance language, or of taking the remainder of the 33 credits in their principal languages. Overall, 15 of the 33 credits must be earned in upper-level courses.

II. One course (minimum 3 credits) in the linguistics of the Romance languages, preferably of a comparative nature.

III. ROMLANG 498, the upper-division Seminar in RLL.

The structure of requirement I enables students to choose between studying two or three languages, and between treating their languages more or less equally and having "primary" and "secondary" (and perhaps "tertiary") languages. Requirement II grounds the major in Romance Languages and Literatures in an understanding of the linguistics of the Romance languages. All RLL majors need to enroll in the upper-division seminar, RomLang 498, during either their junior or senior year. This seminar explores topics for which crossing boundaries among the Romance languages can provide productive avenues of inquiry. A major component of the senior seminar involves individual research projects tailored to each student's linguistic competences.

### Other Department Policies

#### Study Abroad

Majors in Romance Languages and Literatures are encouraged to consider the possibility of [studying abroad](#) for at least one of their languages.

### Residency

A minimum of 21 of the required 39 credits must be taken either in residence or through a study abroad program affiliated with the University of Michigan

### Honors

Romance Languages and Literatures

Qualified students may be admitted to a program of advanced study during their junior year (or at the beginning of the senior year following foreign study), leading to the degree of Bachelor of Arts with Honors in Romance Languages and Literatures. Admission to senior-level Honors work in Romance Languages and Literatures is by application only (forms are available on the department website at [www.lsa.umich.edu/rll](http://www.lsa.umich.edu/rll)). A grade point average of at least 3.5 in all courses, as well as in all courses taken for the major, is required for admission and for graduation with Honors in Romance Languages and Literatures. The Curriculum Committee in Romance Languages and Literatures expects applicants to present evidence of superior language skills and a serious interest in comparative research involving both of their languages and the cultures articulated through them.

Romance Languages and Literatures Honors majors are required to complete 42 credits of coursework and successfully defend a thesis:

#### Course Requirements:

At least 42 credits consisting of the following:

I. A minimum of 30 credits of coursework in 2 languages (from French, Italian, Portuguese, or Spanish) that meet the following qualifications:

- a minimum of 12 credits each in two Romance languages, including at least 6 credits each in upper-level courses ("upper-level" means: 300 or above in French and Italian, 400 or above in Portuguese and Spanish)
- An overall minimum of 21 credits from upper-level courses
- All of these courses must be taught in the target language and must also be courses that would count toward the individual language majors.

II. One course (minimum 3 credits) in the linguistics of the Romance languages, preferably of a comparative nature.

III. ROMLANG 498, the upper-division Seminar in RLL.

IV. ROMLANG 491 and 492, Senior Honors Courses, normally taken in the fall and winter terms, respectively, of a student's senior year.

#### Thesis Requirement:

Composition of a thesis incorporating the results of individual research and demonstrating a substantial piece of work; and

A presentation and discussion of the thesis and of an agreed upon set of related readings with the student's faculty advisor and one other faculty reader.

Working under the direction of a faculty member who serves as thesis director, the student will research the thesis, complete a bibliography and prospectus, and begin drafting the writing process while enrolled in ROMLANG 491. In the following academic term the student will enroll

in ROMLANG 492 and complete the thesis and its presentation and discussion.

### Teaching Certificate

By taking a number of courses in each language beyond the requirements for the major in Romance Languages and Literatures, students may qualify for teaching certification in both a major and a minor language. The exact requirements for certification are available at the following School of Education website: [www.soe.umich.edu/file/tag/teacher+education/](http://www.soe.umich.edu/file/tag/teacher+education/)

Candidates for a secondary school teaching certificate should study the general information about teaching certificate requirements, which appears under the **Teacher Certification Program**, and contact the School of Education.

## Spanish (Major)

A major in Spanish allows students considerable flexibility in developing a program of study leading to competence in the language and a broad knowledge of Hispanic cultures and literatures. Course offerings are grouped into four clusters from which students will select a program of study based on their interests and career plans:

- **Hispanic Communities:** For students interested in acquiring a broad knowledge of the diverse societies and cultures in the Spanish-speaking world. Included in this cluster are courses on culture, literature, and cinema throughout Spain and Latin America, as well as community service and internship courses.
- **Communication and Thought:** For students who wish to focus on language, linguistics, translation, communication in literature and other media, as well as the relationships between language, religion, society, and politics.
- **Power, Politics, and Cultural Production:** For students interested in political and economic issues in the Spanish-speaking world, as expressed in film, literature, and music, historically and in the present-day.
- **Race and Gender:** For students who wish to explore issues of gender and race among the diverse cultures of the Spanish-speaking world.

In selecting courses for a given area of specialization, students should refer to the RLL website and discuss their interests with a department advisor. No specific courses are required, nor is it necessary to declare an area of specialization.

*Effective Fall 2017*

### Advising

The Department offers majors in French, Italian, Romance Languages & Literatures, and Spanish. It offers minors in French, Italian, Portuguese, and Spanish.

Appointments are scheduled [online](#) or at the department office, 4108 Modern Languages Building, (734) 764-5344.

### Prerequisites

SPANISH 277 (or 275 & 276). The prerequisite will be waived for Residential College students who complete one RCLANG 324 readings course in Spanish. Students who complete a second and/or a third RCLANG 324 course will receive major credit for a Spanish elective at

the 300 level. For eligible students, SPANISH 278, Spanish for Heritage Language Learners, can be substituted for SPANISH 277.

### Requirements

**Minimum Credits:** 30

A minimum of 10 courses (30 approved credits), of at least 3 credits each, beyond the prerequisite.

SPANISH 308 does not count toward the major.

### Required Courses in SPANISH:

- 4-5 courses of at least 3 credits each from SPANISH courses numbered 279 to 399
- 5-6 courses of at least 3 credits each from SPANISH courses at the 400-level

### Electives/Cognates.

- Approved courses in other fields, if taught in Spanish, may also count as electives in Spanish.
- Students may count only one of ITALIAN 410 or PORT 280 toward the Spanish major.
- One approved optional cognate course (3 credits), taught in English in the area of Hispanic studies, is allowed.
- No more than one Independent Study and one internship course (6 credits) can be included in the major/minor.
- Students are encouraged to develop a balanced program of study that addresses the cultural production of various countries and historical periods.

### Constraints

- SPANISH 308 does not count toward the major.
- No more than one Independent Study and one internship course (6 credits) can be included in the major/minor.
- Each course to be counted toward the major must be at least 3 credits.

### Residency

A minimum of 5 courses of at least 3 credits each for the major must be taken either in residence or through a study- abroad program affiliated with the University of Michigan.

### Honors

Qualified students may be admitted to a program of advanced study during their junior year (or at the beginning of the senior year following foreign study), leading to the degree of Bachelor of Arts with Honors in Spanish. Admission to senior-level Honors work in Spanish is by application only (forms are available on the department website at [www.lsa.umich.edu/rll](http://www.lsa.umich.edu/rll)). A grade point average of at least 3.5 in all courses, and of 3.5 in Spanish major courses, is required for admission and for graduation with Honors in Spanish. The Honors Committee expects applicants to demonstrate superior ability for their level in both oral and written Spanish, and to present evidence of serious interest in research.

Spanish Honors majors are required to complete 33 credits of coursework and successfully defend a thesis:

### Course Requirements:

- 11 courses (33 credits total): all regular Spanish major requirements must be completed (30 credits) with an additional 3-credit Spanish course at the 400-level. 6 of the required 33 credits (and of the required 18 credits at the 400 level) will consist of Spanish 491 and 492, Senior Honors Courses, normally taken in the fall and winter terms, respectively, of a student's senior year.

#### Thesis Requirement:

- Composition of a thesis, in Spanish, incorporating the results of individual research, demonstrating a substantial piece of work ; and
- A presentation and discussion of the thesis and of an agreed upon set of related readings with the student's faculty advisor and one other faculty reader.

Working under the direction of a faculty member who serves as thesis director, the student will research the thesis, complete a bibliography and prospectus, and begin drafting the writing process while enrolled in SPANISH 491.

In the following academic term the student will enroll in SPANISH 492 and complete the thesis and its presentation and discussion.

#### Teaching Certificate

Students interested in obtaining a secondary teaching certificate should study the general requirements for professional preparation, which appear under the "**Teacher Certification Program**" on this website. Specific subject- area requirements for a teaching certificate can be found on the School of Education website at: [soe.umich.edu/academics/bachelors\\_degree\\_programs/uste](http://soe.umich.edu/academics/bachelors_degree_programs/uste)

## Spanish Language, Literature, and Culture (Minor)

If you are majoring in another field, the Spanish Language, Literature, and Culture minor offers you an opportunity to complement the knowledge gained in your principal field, while adding a cultural and linguistic dimension to your academic experience.

When combined with study in another field, knowledge of a Romance language will open doors to a wide variety of career and educational opportunities. Today, learning of other languages, peoples, and cultures is not only useful, it is imperative.

*Effective Fall 2016*

#### Exclusions:

*A minor in Spanish Language, Literature, and Culture is not open to students with a major in Spanish or any other minor in Romance Languages and Literatures. The Department offers majors and minors in French, Italian, and Spanish. We remind you that you may major or minor in a Romance language, but not both.*

#### Advising

Appointments are scheduled [online](#) or at the department office, 4108 Modern Languages Building, (734) 764-5344.

#### Prerequisites

SPANISH 277 (or 275 & 276). The prerequisite will be waived for Residential College students who complete one RCLANG 324 readings course in Spanish.

Students who complete a second and/or a third RCLANG 324 course will receive major credit for a Spanish elective at the 300 level.

For eligible students, SPANISH 278, Spanish for Heritage Language Learners, can be substituted for SPANISH 277.

#### Requirements

##### Minimum Credits: 18

A minimum of 6 courses (18 credits) of at least 3 credits each, beyond the prerequisite, including:

- 3 courses of at least 3 credits each from SPANISH courses numbered 279 to 399
- 3 courses of at least 3 credits each from SPANISH courses at the 400-level

Specific course selections must include three literature courses. Other courses, or "electives in Spanish," may be selected in Hispanic culture, linguistics, and film. Students should consult a department advisor and develop a balanced program of study that includes the cultural production of various countries and historical periods.

#### Constraints

- Each course to be counted toward the minor must be at least 3 credits.
- No more than one Independent Study and one internship course (6 credits) can be included in the major/minor.
- Students may count only one of ITALIAN 410 or PORTUG 280 toward the Spanish minor.
- SPANISH 308 does not count toward the minor.

#### Residency

A minimum of 4 courses of at least 3 credits each for the minor must be taken either in residence or through a study- abroad program affiliated with the University of Michigan.

# Center for Russian, East European, and Eurasian Studies

The undergraduate curriculum in Russian, East European, and Eurasian Studies offers broad, interdisciplinary training for students who wish to acquire extensive knowledge of countries of the former Soviet Union and East Central Europe.

The minors provide interdisciplinary surveys of three separate geographic sub-domains covered by the major in Russian, East European, and Eurasian Studies. The Center for Russian, East European, and Eurasian Studies offers three interdisciplinary minors to students who wish to:

- better understand the history and culture of either Russia and the former Soviet Union or Eastern Europe or Central Eurasia (especially the countries of Transcaucasia, Central and Inner Asia)
- gain insight into the political, economic, and social transitions taking place in the region.

## Central Eurasian Studies (Minor)

Central Eurasia stretches from Turkey in the west through Mongolia in the east. It includes a variety of religious and cultural communities, from historically Christian groups such as the Armenians and Georgians to Buddhist groups such as the Buryats. It includes the Turkic, Mongolian, Iranian, Caucasian, and Tibetan peoples that fall between the well-known areal blocks of Slavic/Russian, Middle Eastern/Arabic, Chinese/East Asian, and Indian/South Asian Studies. Michigan's offerings concentrate with particular depth on the Turko-Persian Islamic cultures in the heartland of Central Asia.

CREES offers an interdisciplinary academic minor to students who wish to: a) better understand the history, society, and culture, of Central Eurasia (the countries of Transcaucasia, Central and Inner Asia) and b) gain insight into contemporary political, economic, and social issues in the region. The academic minor does not have prerequisites or require knowledge of the region.

*Effective Winter 2012*

### Exclusions:

*Not open to those electing a major or another academic minor in REES.*

Those electing a major in the Department of Slavic Languages and Literatures may pursue a REES minor, but may not count any Slavic Department courses toward satisfying the requirements for the REES minor. Students may concurrently pursue a minor in both REES and Slavic Languages and Literatures, with the following restrictions:

1. REES minors may not count any courses for which Slavic is the home unit;
2. Slavic Department minors may not count REES 397 nor any courses for which REES is the home unit, which includes SLAVIC 395 and 396.

### Advising

Undergraduate advisors at the International Institute are available to meet with undeclared students who would like to learn more about the program, and also with current majors and minors who would like to

discuss course selection, degree requirements, major/minor releases, and other matters of concern. Appointments can be made through our online appointment calendar by clicking on: [meet with an advisor](#). Information on all of our undergraduate programs and Walk-In Advising hours can also be found on our website: [here](#). The International Institute's Undergraduate Advising Office is currently located at 1080 South University Avenue, Suite 2660.

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

### Prerequisites

None.

### Requirements

#### Minimum Credits: 15

At least 15 credits of courses on Central Eurasia, selected in consultation with and approved by the CREES undergraduate academic advisor.

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

### Constraints

A minimum of three courses that will be counted toward the academic minor must be upper-level (300- or 400-level).

## East European Studies (Minor)

CREES offers an interdisciplinary minor to students who wish to:

1. better understand the history and culture of Central and Eastern Europe and
2. gain insight into the political, economic, and social transitions taking place in this region. The minor in East European Studies does not have prerequisites or require knowledge of a language of the region.

*Effective Fall 2011*

### Exclusions:

*Not open to those electing a major or another minor in Russian, East European, and Eurasian Studies.*

Those electing a major in the department of Slavic Languages and Literatures may pursue a Russian, East European, and Eurasian Studies minor, but may not count any Slavic department courses toward satisfying the requirements for the Russian, East European, and Eurasian Studies minor. Students may concurrently pursue a minor in both Russian, East European, and Eurasian Studies and Slavic Languages and Literatures, with the following restrictions:

1. Russian, East European, and Eurasian Studies minors may not count any courses for which Slavic is the home unit;

2. Slavic Department minors may not count REEES 397 nor any courses for which REEES is the home unit, which includes SLAVIC 395 and 396.

### Advising

Undergraduate advisors at the International Institute are available to meet with undeclared students who would like to learn more about the program, and also with current majors and minors who would like to discuss course selection, degree requirements, major/minor releases, and other matters of concern. Appointments can be made through our online appointment calendar by clicking on: [meet with an advisor](#). Information on all of our undergraduate programs and Walk-In Advising hours can also be found on our website: [here](#). The International Institute's Undergraduate Advising Office is currently located at 1080 South University Avenue, Suite 2660.

### Prerequisites

None.

### Requirements

#### Minimum Credits: 15

At least 15 credits of courses on East European topics, selected in consultation with and approved by the CREES undergraduate academic advisor. A minimum of 3 courses that will be counted toward the minor must be upper-level (300- or 400-level).

1. REEES 396 or REEES 397
2. *Disciplinary distribution*: At least one 3-credit course in each sub-area (arts/culture, history, and social science).

### Constraints

Bosnian/Croatian/Serbian, Czech, Polish, or Ukrainian language courses may not count toward the minor.

## Russian Studies (Minor)

Effective Fall 2011

### Exclusions:

*Not open to those electing a concentration or another academic minor in REES.*

Those electing a major in the Department of Slavic Languages and Literatures may pursue a REES minor, but may not count any Slavic Department courses toward satisfying the requirements for the REES minor. Students may concurrently pursue a minor in both REES and Slavic Languages and Literatures, with the following restrictions:

1. REES minors may not count any courses for which Slavic is the home unit;
2. Slavic Department minors may not count REES 397 nor any courses for which REES is the home unit, which includes SLAVIC 395 and 396.

### Advising

Undergraduate advisors at the International Institute are available to meet with undeclared students who would like to learn more about the program, and also with current majors and minors who would like to discuss course selection, degree requirements, major/minor releases, and other matters of concern. Appointments can be made through our online appointment calendar by clicking on: [meet with an advisor](#). Information on all of our undergraduate programs and Walk-In Advising

hours can also be found on our website: [here](#). The International Institute's Undergraduate Advising Office is currently located at 1080 South University Avenue, Suite 2660.

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

### Prerequisites

None.

### Requirements

#### Minimum Credits: 15

At least 15 credits of courses on Russian specific topics, selected in consultation with and approved by the CREES undergraduate academic advisor.

1. REEES 395: Survey of Russia: The Russian Empire, the Soviet Union, and the Successor States.
2. *Disciplinary distribution*: At least one 3-credit course in each sub-area (arts/culture, history\*, and social science).

\*In most cases, students who have taken REEES 395 should not enroll in HISTORY 434.

### Constraints

Russian language courses may not count toward the academic minor.

A minimum of 3 courses that will be counted toward the academic minor must be upper-level (300- or 400-level).

## Russian, East European and Eurasian Studies (Major)

The undergraduate curriculum in Russian, East European, and Eurasian Studies offers broad, interdisciplinary training for students who wish to acquire extensive knowledge of countries of the former Soviet Union and East Central Europe. Proficiency in a language of the region is an important component of the Russian, East European, and Eurasian Studies major. The degree prepares majors for graduate study as well as professional opportunities in areas ranging from government to business to teaching.

Effective Winter 2017

### Prerequisites

One of the following first-year language sequences or the equivalent:

- ARMENIAN 101 and 102
- BCS 131 and 132
- CZECH 141 and 142
- POLISH 121 and 122
- RUSSIAN 101 and 102
- RUSSIAN 103/RCLANG 193
- RUSSIAN 123
- UKR 151 and 152

- YIDDISH 101/JUDAIC 101/GERMAN 127 and YIDDISH 102/JUDAIC 102/GERMAN 128

One of the following strongly recommended:

- RUSSIAN 231 (Introduction to Russian Culture)
- SLAVIC 225 (Arts and Culture of Central Europe)
- SLAVIC 240 (Introduction to Slavic Folklore)

## Requirements

### Minimum Credits: 30

1. **Geographic distribution** (8 credits):  
At least two of the following courses:
  - REEES 340 (Central Eurasia);
  - REEES 395 (Russia);
  - or REEES 396 or 397 (Eastern Europe).
2. **Disciplinary distribution** (9 credits):  
At least one 3-credit upper-level course in each sub-area:
  - Arts/Culture,
  - History,
  - and Social Science.
3. **Seminar** (3-4 credits):  
One 400-level course with an extensive writing or research component on a REES-focused topic approved by the REES program director.
4. **Electives:** Additional advisor approved electives to reach the 30 minimum credits. Electives may be drawn from advisor-approved courses related to REES topics including language courses beyond the 4th term (up to 8 credits) and study abroad coursework.
5. **Language Requirement:** Students must show 6th term proficiency in Russian or Polish, or 4th term proficiency in another language of the region (excluding German).

### Constraints

20 of the minimum 30 credits must be at the 300-level or above.

### Other Department Policies

#### Concurrent Undergraduate/Graduate Studies (CUGS) Program

Majors who are advanced in their studies and have exhausted the undergraduate resources in Russian, East European, and Eurasian Studies are encouraged to talk with the CREES advisor about applying for enrollment in LSA and the Rackham Graduate School through the Concurrent Undergraduate-Graduate Studies (CUGS) Program in LSA.

### Honors

Undergraduate majors who have maintained a 3.5 grade point average in the REES major and a 3.4 overall GPA qualify for admission to the Honors plan. In addition to completing all College and REES graduation requirements, Honors majors complete a Senior Thesis that is judged worthy of Honors designation by the thesis advisor and at least one other faculty reader. An Honors major is not limited to students who have been in the College Honors Program in the first and second year. Students with questions about the program are encouraged to schedule a meeting with an undergraduate academic advisor online at [www.ii.umich.edu/crees](http://www.ii.umich.edu/crees).

# Screen Arts and Cultures

## Global Media Studies (Minor)

The Global Media Studies minor exists for students interested in the study of film and electronically based visual media as national, regional, and global phenomena. This course of study is intended to aid students in obtaining culturally specific as well as cross-cultural understanding of the global impact of moving image media. The minor contributes to an understanding of the unique qualities of textual expression derived from specific cultural and historical contexts as well as to effects of more globalized developments in media technology, narrative and stylistic forms. Students will have the opportunity to study specific cultural modes of media production and reception including, but not limited to, the familiar U.S. cultural/industrial model. The coursework in this minor provides students with the opportunity to reflect on the expansive geographical scope and cultural diversity of film and moving image electronic media (television, single-camera video, digital).

Effective Fall 2017

### Exclusions:

The minor in Global Media Studies is not open to students with a major in the Department of Screen Arts and Cultures.

### Advising

Students who may be interested in a major in Screen Arts and Cultures are encouraged to consult with a department advisor. Appointments are scheduled [online](#).

### Grade Policies

A minimum grade of C– or better must be achieved in any course taken to satisfy the requirements for the Global Media Studies Minor.

### Prerequisites

None.

### Requirements

#### Minimum Credits: 16

At least 16 credits (and five courses), with at least two courses at the 300-level or above:

1. **Required Core Courses:** seven credits from the following:  
SAC 236 The Art of the Film  
One of the following: SAC 351, 352, or 353.
2. **Electives.** 3 electives, at least 2 of which must be from the approved list of Non-US, transnational, comparative film/media courses. A third course may be from Non U.S., transnational, comparative film/media or U.S. Media.

Non U.S., transnational, comparative film/media

- AMCULT 380, 346, 420
- ASIAN 245, 440, 458, 475
- AAS 232, 440, 442, 470
- COMM 251
- CZECH 315
- GERMAN 172, 330, 333, 346

- JUDAIC 250
- POLISH 314
- RCHUMS 312, 313
- SLAVIC 312, 313
- SPANISH 420
- SAC 232, 245, 250, 312, 313, 314, 315, 316, 320, 324, 332, 333, 346, 358, 361, 380, 420, 422, 440, 441, 442, 458, 470, 475, 485
- SAC 366, *sections titled:*
  - "Science Fiction in Film, TV & Popular Culture";
  - "Recent US Wars in Film & TV";
  - "Adaptations";
  - "Amateur Cinema";
  - "Nazi Cinema";
  - "Documentaries: From Vietnam to Iraq";
  - "East Asian Horror";
  - "Hollywood, Vietnam, & the Gulf";
  - "Television Genres";
  - "Race, Ethnicity, and the Media";
  - "Authorship in Film and Media";
  - "Magic and Moving Image";
  - "Documentary Cinema";
  - "Subtitling";
  - "Cinema Babel: Subtitling & Dubbing";
  - "Television Cities, Spaces & People";
  - "Sex and Media";
  - "Sex in Media"
- SAC 455 *sections titled:*
  - "Dialogue of Violence";
  - "TV Genres";
  - "Religion in Film";
  - "Philosophy of Film";
  - "Hollywood, Vietnam, Gulf Wars";
  - "The War Film";
  - "Cult, Camp, and Exploitation Cinema";
  - "Speaking with Ghosts: Mediums and New Media";
  - "Media Cultural Theory";
  - "Cinema of the Pacific War";
  - "Dialogues of Violence: WWII and Cinema"

- PHIL 440
- WOMENSTD 361

#### U.S. media

- AMCULT 334, 351, 490
- SAC 202, 316, 325, 330, 331, 334, 335, 354, 355, 365, 367, 368, 381, 451, 460, 461
- SAC 366 sections titled:
  - *"Sex, Society & Censorship in Classical Hollywood"*;
  - *"Fan Cultures and Popular Media"*;
  - *"Self as Subject"*;
  - *"TV Sports Programming"*;
  - *"The Road Movie & American Culture"*;
  - *"Media Spaces"*;
  - *"Stardom & Ethnicity in US Cinema"*;
  - *"Race, Ethnicity, & Stardom in US Cinema"*;
  - *"The Situation Comedy"*;
  - *"Fiction into Film"*;
  - *"The Horror Film after Psycho"*;
  - *"Film Noir"*;
  - *"3-D Viewing"*;
  - *"Exploitation Cinema"*;
  - *"Countercultures, Subcultures, & Mass Media"*;
  - *"Race Ethnicity & Stardom in Hollywood"*;
  - *"Cult, Camp, Art & Exploitation"*;
  - *"Television Genres: Cult TV"*;
  - *"Motor City Movies"*
- SAC 455 sections titled:
  - *"Contemporary Film Industry"*;
  - *"Post-Classical Hollywood Cinema"*;
  - *"The Horror Film after Psycho"*;
  - *"Science Fiction in Film"*;
  - *"Internet as Popular Culture"*;
  - *"Musicals: In and Out of Hollywood"*;
  - *"Media Effects Topics"*;
  - *"Video Games, Cultures & Contexts"*;
  - *"American Independent Cinema"*;
  - *"Film Noir"*;
  - *"Zombies! Exhuming the Undead in American Culture"*

#### Constraints

Independent Studies (SAC 499) may not be used toward the minor.

Students may not use more than one course to satisfy the requirements of both a major and a minor.

## Screen Arts and Cultures (Major)

The curriculum in Screen Arts and Cultures provides an integrated program of courses in the history, aesthetics, theory, and techniques of film and moving image electronic media (television, single-camera video, digital). Emphasis is placed on a liberal arts sequence that provides students with a solid foundation for understanding how film and electronic-based visual media arise out of varied cultural, historical, social, and technological circumstances. Two prerequisite courses prepare them for advanced study in the history and aesthetics of moving image media and for production courses. An introductory course in production gives students hands-on experience in film, video, and television. Courses in film history prepare students for electives in the films of specific cultures, nations, and time periods, as well as in the study of film style illuminated by the work of individual artists and in various genres. Television history allows them to assess trends in the social, technological, and formal development of the most influential medium of the second half of the twentieth century. Required courses in theory and criticism examine the methods that have been used to study film, television, and digital media.

Production core courses are designed to help majors work creatively in film and moving image electronic media (television, single-camera video, digital) as they become familiar, through electives, with interdisciplinary, humanistic perspectives on how moving image technology has been used in different cultures as a medium of communication and artistic expression, and how various kinds of institutional practice have characterized its use. The film-video curriculum is designed to prepare students for more advanced work in film writing and criticism, in creative film, video-making, and studio television work, and for advanced study in graduate programs in moving image media.

*Effective Fall 2016*

#### Advising

Students who may be interested in a major in Screen Arts and Cultures are encouraged to consult with a department advisor. Appointments are scheduled online

at: [https://webapps.lsa.umich.edu/AdvAppts/AA\\_StuSelfSvc1.aspx?ctgy=SAC](https://webapps.lsa.umich.edu/AdvAppts/AA_StuSelfSvc1.aspx?ctgy=SAC)

#### Grade Policies

Prerequisites for the SAC major may be taken for a grade or may be taken P/F.

A minimum grade of C– or better must be achieved in any course taken to satisfy the requirements for the Global Media Studies Minor.

#### Prerequisites

SAC / RCHUMS 236 - The Art of the Film, and SAC 272 - Classical Film Theory, each completed with a minimum grade of C-.

Students will apply for entry to the major after having completed the prerequisites with a minimum grade point average of 2.0. In accord with LSA policies, students who do not meet the minimum grade requirement but still hope to declare the Screen Arts and Cultures major may retake one prerequisite course. If they meet the criteria above with the new grade they earn in the re-taken course, they may declare Screen Arts and Cultures as their major.

#### Requirements



**Minimum Credits: 30****1. Core Required Courses (21 credits).**

1. *Two history courses:*  
SAC 352 - Film History: Origins to the French New Wave, and one additional history course selected from among the following:
  - SAC 353 - Film History: Post New Wave
  - SAC 354 - New Media History
  - SAC 355 - Television History.
2. *One theory course beyond the prerequisite selected from among the following:*
  - SAC 372 - Contemporary Film Theory
  - SAC 375 - Television Theory and Criticism
  - SAC 376 - New Media Theory
  - SAC 461 - Explorations in Feminist Film Theory
3. *Introduction to production course: SAC 290- Introduction to Media Production.*
4. *Two production or writing courses selected from the following:*
  - SAC 300 - Dramatic Narrative I
  - SAC 301 - Documentary I
  - SAC 302 - Television I
  - SAC 304 - Topics in Media Production I
  - SAC 305 - The Experimental Screen
  - SAC 306 - New Media Practices I
  - SAC 307 - Film Analysis for Filmmakers
  - SAC 310 - Screenwriting I: The Feature Script
  - SAC 311 - Writing for Television I: The Spec Script
5. *One studies course selected from among the following in national, regional, or transnational cinema:*
  - SAC 250 / JUDAIC 250 / NEAREAST 280 - Jewish Film: Race, Ethnicity, and Nationality
  - SAC / SLAVIC / RCHUMS 313 - Russian and Ukrainian Cinema
  - SAC / POLISH 314 - Polish Cinema

- SAC / ITALIAN 316 - Screening Italian-Americans
- SAC 332 / GERMAN 330 - German Cinema
- SAC / GERMAN 333 - Fascist Cinema
- SAC / AMCULT / COMM 334 - Race, Gender, Sexuality and U.S. Culture in Video Games
- SAC / ASIAN 341 - Bollywood and Beyond: An Introduction to Popular Indian Cinema
- SAC / GERMAN / AMCULT 346 - Media Matter: From Print to Screen Culture
- SAC 358 - Italian Film: History, Art, Entertainment
- SAC 365 - Race and Ethnicity in Contemporary American Television
- SAC 368 - Topics in Digital Media Studies
- SAC / AMCULT / LATINOAM 380 - Studies in Transnational Media
- SAC / AMCULT / LATINOAM 381 - Latinas/Latinos and the Media
- SAC / AAS 440 - African Cinema
- SAC 441 - National Screens
- SAC / AAS 442 - Third World Cinema
- SAC / ASIAN 458 - Film Culture in Korea
- SAC / AAS 470 - Cultural Cinema
- SAC 485 - The Global Screen
- ITALIAN 358 - Italian Cinema
- or a similar course pre-approved by the advisor.

2. **Required Electives (9 credits; 3 courses):** Three SAC courses at the 300 or 400 level, with no more than two courses in production (see list below).

**Production Courses**

- SAC 300 - Dramatic Narrative I
- SAC 301 - Documentary I
- SAC 302 - Television I
- SAC 304 - Topics in Media Production I
- SAC 305 - The Experimental Screen
- SAC 306 - New Media Practices I
- SAC 307 - Film Analysis for Filmmakers

- SAC 310 - Screenwriting I: The Feature Script
- SAC 311 - Writing for Television I: The Spec Script
- SAC 400 - Dramatic Narrative II
- SAC 401 - Documentary II
- SAC 402 - Television II
- SAC 403 - Television Sketch Comedy
- SAC 404 - Topics in Media Production II
- SAC 405 - Screendance
- SAC 406 - New Media Practices II
- SAC 410 - Screenwriting II: The Rewrite
- SAC 411 - Writing for Television II: Pilots
- SAC 423 - Practicum for the Screenwriter
- SAC 427 - Screenwriting III

Optional Submajor: [Screenwriting](#)

### Other Department Policies

#### Screenwriting Submajor of Screen Arts and Cultures Major

The department offers a sub-major in Screenwriting to undergraduate students in the Screen Arts & Cultures major who demonstrate a special talent for writing for the screen.

#### Honors

The Honors plan in the Department of Screen Arts and Cultures offers qualified Screen Arts and Cultures majors a special opportunity. Upper-level students with strong academic records and a demonstrated ability to carry out the independent work required to complete an Honors thesis, screenplay, film, video or digital production are encouraged to apply. The Screen Arts and Cultures Honors major is not restricted to students who have been in the College Honors Program in their freshman and sophomore years.

Upon successful completion of the Honors plan, students may graduate with Honors, High Honors, or Highest Honors in Screen Arts and Cultures, depending on the evaluation of their thesis, screenplay, or project. These Honors designations appear on their diploma along with any College Honors designations they earn from their overall grade point.

Students accepted into the Honors plan also become members of the Honors Program of the College of Literature, Science, and the Arts. As members of the LSA Honors Program, they gain access to a variety of special services such as possible financial support for their Honors work. In addition, students may also apply for competitive scholarships administered by the Department of Screen Arts and Cultures to help with costs associated with Honors projects.

**Admission.** To be considered for the Honors major, students must have a grade point average of 3.5 or higher in the Screen Arts and Cultures major. Students must also identify a Screen Arts and Cultures faculty sponsor and file an application for admission to the Honors plan no later than three terms prior to the intended graduation date. For further information, contact the Screen Arts and Cultures Department at (734) 764-0147.

## Screenwriting (Sub-Major)

The department offers a submajor in Screenwriting to undergraduate students in the Screen Arts & Cultures major who demonstrate a special talent for writing for the screen.

If a student is not accepted into the Screenwriting submajor, he or she may continue with the Screen Arts and Cultures major. The courses required of the student to apply for the submajor will all satisfy requirements in the general SAC major, whether or not the student is successful in his/her application to the Screenwriting submajor. Students who receive notice of their acceptance into the Screenwriting submajor from the Screenwriting Coordinator should see the Associate Chair of Screen Arts & Cultures to complete a revised major declaration form to notify the college of their admission into the Screenwriting submajor.

Submajors are expected to complete all normal Screen Arts and Cultures requirements for the major in the studies-based part of the curriculum.

*Effective Winter 2014*

#### Advising

Students who may be interested in a major in Screen Arts and Cultures are encouraged to consult with a department advisor. Appointments are scheduled online at: [https://webapps.lsa.umich.edu/AdvAppts/AA\\_StuSelfSvc1.aspx?ctgy=SAC](https://webapps.lsa.umich.edu/AdvAppts/AA_StuSelfSvc1.aspx?ctgy=SAC)

#### Prerequisites

**Additional Pre-requisites and/or requirements are listed on the [Screen Arts and Cultures Major page](#).**

SAC 236 and SAC 272, each completed with a minimum grade of C-. Prerequisites for the SAC major may be taken for a grade or may be taken P/F.

Students interested in the submajor must take the same prerequisite courses required of students wishing to declare the Screen Arts & Cultures major. Students with a minimum grade point average of 2.0 in these two courses should meet with an advisor to declare his/her major in Screen Arts & Cultures.

Students must then take SAC 290 and 210, followed by SAC 310. After successful completion of SAC 310, and acceptance and successful completion, B- or better, in SAC 410, the student may apply for the Screenwriting submajor. The student should contact the Coordinator of Screenwriting to state their interest in applying to the submajor.

#### Requirements

Final approval for the Screenwriting submajor is based on the student's acceptance and successful completion, B or better, of one of the following:

- SAC 427, Screenwriting III  
OR  
SAC 423, Practicum for the Screenwriter (only if the student is selected as one of the two screenwriters for the course)
- SAC 311, Screenwriting for Television

Note: If a student is not accepted into the Screenwriting submajor, he or she may continue with the Screen Arts and Cultures major. The courses required of the student to apply for the submajor will all satisfy requirements in the general SAC major, whether or not the student is successful in his/her application to the Screenwriting submajor. Students who receive notice of their acceptance into the Screenwriting submajor from the Screenwriting Coordinator should see the Associate

Chair of Screen Arts & Cultures to complete a revised major declaration form to notify the college of their admission into the Screenwriting submajor.

Submajors are expected to complete all normal Screen Arts and Cultures requirements for the major in the studies-based part of the curriculum.

**Honors**

After successful completion of SAC 410, students with a GPA of 3.5 or above in the Screen Arts and Cultures major and 3.4 GPA overall may wish to declare Honors in Screenwriting. Interested students should consult the Coordinator of Screenwriting.

# Slavic Languages and Literatures

## Bosnian/Croatian/Serbian, Literature and Culture (Minor)

This academic minor provides students with a fundamental competence in BCS, as well as the knowledge of literary and cinema masterpieces from the region.

The BCS academic minor is a vibrant program that integrates political, architectural, and cultural knowledge with the already rich program of Eastern European studies. Its curriculum broadens the perspective needed for academics, diplomats, journalists, businesspersons, and future specialists on the history, language, literature, and politics of the Western Balkans. This program will be of particular interest to undergraduate students in concentrations like History, Political Science, Sociology, or Judaic Studies. It will also provide a necessary venue for a considerable body of students who are heritage speakers of BCS, and for those interested in the culture of the former Yugoslavia and its successor states.

This academic minor may represent an opportunity for a growing number of economics, politics, and diplomacy professionals employed in the Western Balkans, both in the government-sponsored and NGO sectors. The BCS academic minor will offer them a chance to gain linguistic competence, as well as prepare them for easier access to the BCS-speaking countries' cultural and social contexts [Serbia, Croatia, Bosnia, Montenegro, as well as Kosovo]. The courses included in the academic minor provide an excellent introduction into the political context of the unification of the Kingdom of Yugoslavia, the refusal of the Socialist Yugoslavia to become part of the Stalinist Eastern Europe, the subsequent 50 years of specific Yugoslav socialism, as well as causes and consequences of the dissolution wars that occupied the entire decade of the 1990s. Students will learn about the masterpieces produced by writers from the region, both by those who were openly critical of the political developments in specific periods, as well as those who kept their criticism limited to their work. An amazing discovery for students awaits in the film production from the region, where the level of artistic freedom and criticism of contemporary society is second to none. Ultimately, some courses address specific contemporary issues of ideology, racism, immigration, or gender and sexual discrimination, and they can be of interest even to those students who may have neither heritage links nor specific career plans connected to BCS.

*Effective Winter 2013*

### Exclusions:

*Not open to those who are electing a concentration in Russian, East European, and Eurasian Studies. Students could concurrently pursue this academic minor with one in REES with the following restrictions: (1). REES academic minors may not count any course for which Slavic is the home unit. (2). Slavic academic minors may not count REEES 397 or any course for which REES is the home unit, which includes SLAVIC 395 and 396.*

### Advising

Students wishing to pursue an academic minor in the Department of Slavic Languages and Literatures must develop a specific plan for its completion in consultation with the department's designated advisor, Tatjana Aleksic. Appointments are scheduled online at <http://lsa.umich.edu/slavic/undergraduate-students/advising.html>

### Prerequisites

BCS 131, 132, and 231, or equivalent, as determined by the departmental placement examination.

### Requirements

#### Minimum Credits: 16

16 credits of courses, including BCS 232 (4 credits) and 12 credits in courses selected from the following two categories, with at least 6 credits from Category A and no more than 6 credits from Category B:

**Category A: BCS Courses Language, Literature, and Culture.** Courses in Category A encourage students to continue their language study through literary classes and individualized work with an instructor, concentrating on BCS culture, literature and history.

- BCS 350 / JUDAIC 350 / REEES 350: Legacy of the Holocaust in Yugoslav Culture: How and Why We Need to Narrate the Holocaust
- BCS 436: Modern Bosnian/Croatian/Serbian Literature
- BCS 437: Yugoslav Literature of Exile: Nowhere People-Exiles from the State of Ideology
- BCS 439: Directed Reading of Bosnian/Croatian/Serbian Literature
- HISTORY 431: History of the Balkans Since 1878
- SLAVIC 471: Seminar in Cultural Studies of Central, Eastern and Southern Europe, *section titled "Technologies of Memory"*

#### Category B: Courses on Central/Eastern European Slavic

**Culture.** Category B courses place the cultural space of the Western Balkans (the area where BCS is spoken) into a larger Central European political, cultural and historical context.

- POLISH 215: Heart of Europe: Poland Today
- SLAVIC 225: Arts and Cultures of Central Europe
- SLAVIC 312 / RCHUMS 312: Central European Cinema
- SLAVIC 423: Central European Literature in the Twentieth Century
- SLAVIC 490: Issues in the Cultures of Eastern Europe (appropriate topics)
- REEES 405: Topics in Russian, East European, and Eurasian Studies (appropriate topics)

## Cultures and Literatures of Eastern Europe (Minor)

The minor in Cultures and Literatures of Central Europe is intended for students interested in developing their knowledge and understanding of Slavic studies but who are unable to dedicate time to language study to complete a rigorous program of study.

This minor affords such students the opportunity to build their new interest into a recognized program of academic study with a framework

that would enable coordinated study over several terms. This program has been designed specifically for students who have either:

- become interested in Slavic studies later in their academic careers and are thus unable to complete a language requirement; or
- demanding majors that do not include flexibility to take on an extensive course of language study but are interested in the literatures and culture of Eastern Europe.

The minor is divided between Russian Studies, and Polish, BCS, Czech, Eastern-European Jewish studies, and cross-cultural Slavic studies (reflecting the overall distribution of course offerings in the Dept). Students must take courses from both of these groups, and may choose to specialize in Russian studies, or in one or more other areas of Eastern and Central European culture. Thus, a student completing this minor will have acquired relatively detailed knowledge in at least one area of the department's specialization, while also having been exposed to the diversity of cultures found between the Danube and the Pacific Ocean.

*Effective Winter 2013*

#### Exclusions:

*Academic minors in Slavic Languages and Literatures are not open to those electing a major or any other academic minor in the department of Slavic Languages and Literatures, nor to those electing a major in the Center for Russian, East European, and Eurasian Studies (REES). Students may concurrently pursue an academic minor in both REES and Slavic with the following restrictions:*

1. REES minors may not count any courses for which Slavic is the home unit
2. Slavic minors may not count REES 397 or any courses for which REES is the home unit, which includes SLAVIC 395 and 396.

#### Advising

Students wishing to pursue an academic minor in the Department of Slavic Languages and Literatures must develop a specific plan for its completion in consultation with Professor Michael Makin, the department's designated advisor.

Appointments are scheduled online at [www.lsa.umich.edu/slavic/undergraduate/advising](http://www.lsa.umich.edu/slavic/undergraduate/advising)

#### Prerequisites

None. No knowledge of the languages of Eastern Europe is required.

#### Requirements

##### Minimum Credits: 15

At least **fifteen credits** elected in the following courses in Eastern European Literatures and Cultures, of which only one course may be below the 300-level. Students may take as many courses as they like in one of the two groups, but must elect a **minimum of six credits** in the other group:

##### Group A:

- POLISH 214, 215, 314, 325, 326;
- CZECH 315, 484;
- BCS 436;

- SLAVIC 225, 240, 270, 281, 312, 470, 481, 488, 490.

##### Group B:

- SLAVIC 313, 315, 316;
- RUSSIAN 231, 322, 346, 347, 348, 356, 358, 361, 444, 450, 453, 454, 460, 462, 463, 464, 466, 467, 468, 469, 473, 474.

## Czech Language, Literature, and Culture (Minor)

The minor in Czech Language, Literature, and Culture is designed to give students a fundamental competence in Czech language upon which they can build, as well as a knowledge of some of the major cultural achievements and individual masterpieces of Czech literature and cinema.

The intended audience comprises all undergraduates with substantial interest in Czech studies. Such students might include those who envision doing professional work in the Czech Republic, those intending to pursue graduate work in areas related to Czech culture and society, as well as those who may wish to learn more about their own heritage.

The minor presents the opportunity to gain basic competence in Czech language, upon which one can build toward whatever higher level of proficiency one requires. Furthermore, the minor gives students exposure to and knowledge of the work of some of the major figures in Czech culture, including such internationally acclaimed authors as Jaroslav Hašek, Karel Capek, and Milan Kundera, as well as the Nobel Prize winning poet Jaroslav Seifert. The ways in which Czech culture met the challenges of World War II, and of the subsequent forty years of Communist rule, is given major emphasis in several of the courses. Students may also learn about the important contributions of Czech filmmakers to world culture. Thus, the minor will have substantial value for all students who have an intellectual interest in Czech culture, even in cases where Czech studies do not figure directly in the student's career plans. This might be the case particularly for students who trace part of their own family heritage to the Czech lands. Finally, several of the courses address question about ethnic discriminations as they have been dealt with in literature and film, a feature which would deepen students' understanding through the comparative perspective it would provide.

*Effective Fall 2012*

#### Exclusions:

*Academic minors in Slavic Languages and Literatures are not open to those electing a concentration or any other academic minor in the department of Slavic Languages and Literatures, nor to those electing a concentration in the Center for Russian, East European, and Eurasian Studies (REES). Students may concurrently pursue an academic minor in both REES and Slavic with the following restrictions:*

1. REES minors may not count any courses for which Slavic is the home unit
2. Slavic minors may not count REES 397 or any courses for which REES is the home unit, which includes SLAVIC 395 and 396.

#### Advising

Students wishing to pursue a minor in the Department of Slavic Languages and Literatures must develop a specific plan for its completion in consultation with the department's designated advisor,

Jindrich Toman. Appointments are scheduled online at [www.lsa.umich.edu/slavic/undergraduate/advising](http://www.lsa.umich.edu/slavic/undergraduate/advising).

#### Prerequisites

CZECH 241 or equivalent.

#### Requirements

##### Minimum Credits: 16

16 credits of courses, including CZECH 242 (4 credits) and 12 credits in courses selected from the following two categories, with at least 6 credits from category B.

**Category A: Courses on Central European Slavic Culture** (no more than 6 credits from Category A may count in the minor):

- SLAVIC 225: Arts and Cultures of Central Europe
- SLAVIC / RCHUMS 312: Central European Cinema
- SLAVIC 423: Central European Literature in the Twentieth Century

Students may count up to 3 credits of Third-Year Czech (CZECH 341 and 342) toward the minor.

**Category B: Courses on Czech culture, literature, and cinema** (at least 6 credits are required from Category B):

- CZECH 315: Czech Cinema
- CZECH 480: Supervised Czech Reading
- CZECH 483: Czech Literature from the Middle Ages to the Enlightenment
- CZECH 484: Modern Czech Literature
- SLAVIC 470: Topics in Cultural Studies of Central, Eastern, and Southern Europe (appropriate sections)
- SLAVIC 490: Issues of the Cultures of Eastern Europe (appropriate sections)

## Polish (Major)

The Polish Program at the University of Michigan is considered one of the strongest, possibly the strongest, Polish programs in the country. Language courses are the core, with offerings including First, Second, Third, and Fourth Year Polish. U-M is thus the only American university to offer four levels of Polish every year. It also offers on a regular basis Polish literature survey courses, as well as courses on Polish drama, novel, film, and popular culture. People of Polish heritage form the fourth largest ethnic group in the state of Michigan, and a great number of students at the University of Michigan have Polish roots. The strength of the program has been possible thanks to intensive cooperation with the Center of Russian and East European Studies. The Center actively supports Polish activities across the campus and helps coordinate a large network of faculty that include in their teaching and research different aspects of Polish culture. The Polish program also benefits from the activities of the Copernicus Endowment, most notably its annual Copernicus Lectures delivering leading Polish scholars, artists, writers, and public figures.

The concentration is intended for undergraduates who have an interest in Polish language and culture for academic, cultural, or frequently heritage reasons. It will appeal to students who are contemplating professional, scholarly, or business careers that will involve work in

Poland. Its goal is to give interested students a solid base in Polish language and culture, knowledge they can apply in a future academic and/or professional career. It aims to enable research and day-to-day communication, at the same time that it provides competence in salient aspects of Polish literature and culture.

In addition to the major, the department offers an academic minor in Polish Language, Literature, and Culture.

*Effective Winter 2013*

#### Advising

Piotr Westwalewicz should be consulted by prospective majors before the end of the sophomore year. Appointments are scheduled online at [www.lsa.umich.edu/slavic/undergraduate/advising](http://www.lsa.umich.edu/slavic/undergraduate/advising).

#### Prerequisites

POLISH 121, 122, 221, and 222, or the equivalent.

#### Requirements

##### Minimum Credits: 27

1. **Polish Language:** 6-12 credits of POLISH 321, 322, 421, 422; or equivalent
2. **Polish Literature:** 6-9 credits of POLISH 325, 326, 432
3. **Polish Culture:** 6-9 credits of POLISH 214, 215, 314, 450, SLAVIC 490\*
4. **Electives.** 3-9 credits of:
  - SLAVIC 225, 240, 270, 312, 396, 490\* (Polish topics);
  - HISTORY 330, 331
  - REEES 396

*\*(appropriate sections of SLAVIC 490 include "Rocks Kill Communism" and "Revolution in the Attic")*

Up to two terms of another Slavic language (Bosnian / Croatian / Serbian, Czech, Russian, Ukrainian); see department for additional course options).

#### Constraints

At least 15 of the 27 credits must be upper-level (300 or above).

#### Residency

At least 15 of the 27 required credits must be taken in residence or through a study abroad program affiliated with the University of Michigan. Study Abroad credit may count toward the major. Please consult with the Polish advisor prior to studying abroad.

## Polish Language, Literature and Culture (Minor)

The minor in Polish Language, Literature, and Culture is designed to give students a fundamental competence in Polish language upon which they can build, as well as a knowledge of some of the major cultural achievements and individual masterpieces of Polish literature and cinema.

The intended audience comprises all undergraduates with substantial interest in Polish studies, but with insufficient time to pursue a major in this area. Such students might include those who envision doing

professional work in Poland, those intending to pursue graduate work in areas related to Polish culture and society, as well as those who may wish to learn more about their own heritage.

*Effective Fall 2017*

#### Exclusions:

*Academic minors in Slavic Languages and Literatures are not open to those electing a major or any other academic minor in the department of Slavic Languages and Literatures, nor those electing a concentration in Russian, East European, and Eurasian Studies.*

Students could concurrently pursue this academic minor with one in REES with the following restrictions:

(1). REES academic minors may not count any course for which Slavic is the home unit.

(2). Slavic academic minors may not count REES 397 or any course for which REES is the home unit, which includes SLAVIC 395 and 396.

#### Advising

Students wishing to pursue an academic minor in the Department of Slavic Languages and Literatures must develop a specific plan for its completion in consultation with the department's designated advisor, Dr. Piotr Westwalewicz.

Appointments are scheduled online at [www.lsa.umich.edu/slavic/undergraduate/advising](http://www.lsa.umich.edu/slavic/undergraduate/advising)

#### Prerequisites

POLISH 121, 122, and 221, or equivalent.

#### Requirements

##### Minimum Credits: 16

1. **Polish language:** POLISH 222, or equivalent
2. **Polish literature and culture:** 6 credits in POLISH 214, 215, 314, 325, 326, 432, 450, SLAVIC 490\*
3. **Electives:**
  - 6 credits in SLAVIC 225, 240, 270, 312, 396, 423, 490 (*appropriate sections\**)
  - HISTORY 330, 331
  - Up to three credits of Third-Year Polish (POLISH 321 and 322) may be counted.

See department for additional course options

*\* (appropriate sections of SLAVIC 490 include "Rocks Kill Communism" and "Revolution in the Attic")*

#### Residency

At least 10 of the 16 required credits must be taken in residence or through a study abroad program affiliated with the University of Michigan.

Study Abroad credit may count toward the minor. Please consult with the Polish advisor prior to studying abroad.

## Russian (Major)

The Russian major aims to combine, in the best traditions of a liberal arts degree, practical language learning with the study of culture broadly understood. It provides extensive language training and

demanding courses in literary history and analysis. Moreover, the Department firmly believes that serious language study offers broad intellectual benefits in and of itself. In the upper-level Russian language courses, it aims to develop linguistic self-consciousness and a basis for the study of linguistics proper. In literary studies many undergraduates take not only the required courses (both in translation and in Russian), but also elect more specialized courses such as "monograph" studies of Pushkin (RUSSIAN 461), Dostoevsky (RUSSIAN 462), Chekhov (RUSSIAN 463), and Tolstoy (RUSSIAN 464).

Russian is also an especially rewarding second major when combined with political science, history or another social-science discipline. Students who complete the intensive year-long language program in their first year are particularly well equipped to follow the dual-major path.

*Effective Fall 2016*

#### Advising

Professor Michael Makin, the undergraduate department advisor, should be consulted by prospective majors before the end of the sophomore year. Appointments are scheduled online at [www.lsa.umich.edu/slavic/undergraduate/advising](http://www.lsa.umich.edu/slavic/undergraduate/advising).

#### Prerequisites

Students have three possible ways to complete the Russian major program:

- the standard major option, based on the study of Russian literature and language
- a Culture track
- a Heritage Speakers track

#### Russian Major Prerequisites:

RUSSIAN 101, 102, 201, and 202, (or RUSSIAN 103 and 203 or RUSSIAN 123 and 223) or the equivalent. Interested students are advised to begin Russian during their first year.

#### Culture track Prerequisites:

RUSSIAN 101, 102, 201, and 202, (or RUSSIAN 103 and 203 or RUSSIAN 123 and 223) or the equivalent. Interested students are advised to begin Russian during their first year.

#### Heritage Speakers track Prerequisites:

RUSSIAN 225 or 202, or equivalent, or placement in an upper-level course; and RUSSIAN 231.

#### Requirements

##### Minimum Credits: 27

#### Russian Language and Literature

##### 1. Core Courses:

- RUSSIAN 301 (or RCLANG 323) and 302, or 303
- RUSSIAN 401 and 402
- RUSSIAN 451 or 499
- RUSSIAN 347, plus 348 or 375

##### 2. Russian literature/culture after 1900:

- at least one course (*e.g.* RUSSIAN 361, 450, 467, 468, 469, 470, 471, 472, 475, SLAVIC 313, 470).

#### Culture track

### 1. Core Courses:

- RUSSIAN 231 or SLAVIC 270 or 240 or 281
- RUSSIAN 301 (or RCLANG 323) and 302; or 303
- RUSSIAN 401 and 402
- RUSSIAN 451 or 499

### 2. Upper-Level Electives for Culture subplan:

- At least two of RUSSIAN 322, 347 or 348, 358, 361, 375, 391, 477, SLAVIC 313, 470, 481.

### Heritage Speakers track

#### 1. Core Courses:

- RUSSIAN 325 or 302, or equivalent
- RUSSIAN 401 and 402
- RUSSIAN 501 and 502
- two of: RUSSIAN 451, RUSSIAN 499, RCLANG 323

#### 2. Upper-Level Electives for Heritage Speakers subplan:

- At least two of RUSSIAN 347, 348, 361, 375, 450, or other literature courses with permission of advisor.

### Honors

Undergraduate majors who have maintained a 3.5 grade point average in Russian courses and 3.4 overall GPA may apply for admission to the Honors major. In addition to regular requirements for the major, qualified Honors majors work on a major project during the senior year, and complete an Honors thesis based on their research.

## Russian Language, Literature, and Culture (Minor)

The minor in Russian Language, Literature, and Culture is designed to give students a fundamental competence in Russian language upon which they can build, as well as a knowledge of some of the major cultural achievements and individual masterpieces of Russian literature and cinema.

The intended audience comprises all undergraduates with substantial interest in Russian language, literature, and culture, but with insufficient time to pursue a concentration in this area. Such students might include those who envision doing professional work in Russia, those intending to pursue graduate work in areas related to Russian culture and society, as well as those who may wish to learn more about their own heritage.

*Effective Winter 2013*

#### Exclusions:

*Not open to those who are electing a concentration in Russian, East European, and Eurasian Studies.*

*Students could concurrently pursue this academic minor with one in REES with the following restrictions:*

*(1). REES academic minors may not count any course for which Slavic is the home unit.*

*(2). Slavic academic minors may not count REES 397 or any course for which REES is the home unit, which includes SLAVIC 395 and 396.*

### Advising

Students wishing to pursue an academic minor in the Department of Slavic Languages and Literatures must develop a specific plan for its completion in consultation with the department's designated advisor, Michael Makin. Appointments are scheduled online at [www.lsa.umich.edu/slavic/undergraduate/advising](http://www.lsa.umich.edu/slavic/undergraduate/advising)

### Prerequisites

RUSSIAN 201 or equivalent.

### Requirements

#### Minimum Credits: 17

RUSSIAN 202 or 203 or 223 or RCLANG 293, and 12 additional credits in courses selected from among the following, with at least 6 credits elected at the upper level:

- RUSSIAN 231, 301, 302, 303, 322, 346, 347, 348, 358, 361, 450, 451, 453, 462, 463, 464, 466, 469, 474, 478, 479, 480, 499
- SLAVIC 240, 313, 315, and 316.

## Ukrainian Language, Literature, and Culture (Minor)

An academic minor in Ukrainian Language, Literature, and Culture would provide to students already engaged with the language an opportunity to expand their knowledge and understanding of Ukrainian culture in the broader context of European society as a whole.

The academic minor in Ukrainian is a vibrant and multi-faceted program that integrates Ukrainian studies into broader intellectual and policy agendas, while promoting research and scholarly work on contemporary Ukraine in the United States. Its curriculum will educate students on the history, language, literature, and politics of Ukraine. In addition, study of Ukraine brings an important comparative perspective to international and interdisciplinary studies at the University of Michigan, as the Ukraine has historically been viewed as a meeting place of several major cultures: East Slavic, Jewish, Austro-Hungarian, and others.

This program could be of particular interest to undergraduate students in concentrations like Judaic Studies, History, the Program in the Environment, Political Science, and Sociology.

Ukraine's highly educated population (seventh in Europe), natural wealth, size (second largest state in Europe), and location in the borderland between Europe and Asia and in between Poland and Russia, make it an important country both regionally and globally. With Ukraine's recent independence, it is an important time to introduce a broader audience the rich legacy of Ukrainian literature, history and culture. Ukraine now occupies a vital but often ambiguous strategic position as an independent country important to the security and stability of all of Europe. Ukraine's changing boundaries over the centuries gives us a completely different view of the culture of the post-Soviet years, and now in the expansion of the EU.

The latest achievements of inner freedom and the recognition of a diversity of cultures in Ukraine have become the main means for fostering research and academic contacts between Ukraine and the U.S. Ukraine is engaged in the global processes of state building, creation of a market economy, and social changes. Ukraine's



democratic "Orange Revolution" has led to closer cooperation and more open dialogue between Ukraine and the United States.

The EU is seeking an increasingly close relationship with Ukraine, going beyond co-operation, to gradual economic integration and a deepening of political co-operation. NATO and the Ukraine actively cooperate in international peace-support operations and have developed practical cooperation in a wide range of other areas. In May 2008 Ukraine became a member of the World Trade Organization and has since engaged in negotiations for the establishment of a deep and comprehensive Free Trade Area.

*Effective Fall 2012*

#### Exclusions:

*Academic minors in Slavic Languages and Literatures are not open to those electing a concentration or any other academic minor in the department of Slavic Languages and Literatures, nor to those who are electing a concentration in Russian, East European, and Eurasian Studies.*

*Students could concurrently pursue this academic minor with one in REES with the following restrictions:*

*(1). REES academic minors may not count any course for which Slavic is the home unit.*

*(2). Slavic academic minors may not count REES 397 or any course for which REES is the home unit, which includes SLAVIC 395 and 396.*

#### Advising

Students wishing to pursue an academic minor in the Department of Slavic Languages and Literatures must develop a specific plan for its completion in consultation with Svitlana Rogovyk (Language Coordinator)

Appointments are scheduled online at [www.lsa.umich.edu/slavic/undergraduate/advising](http://www.lsa.umich.edu/slavic/undergraduate/advising)

#### Prerequisites

UKR 251: Second-Year Ukrainian (with a grade of "C" or better) or equivalent as determined by the Departmental placement examination.

#### Requirements

##### Minimum Credits: 16

1. UKR 252: Second-Year Ukrainian
2. 12 credits in courses selected from the following two categories, with at least 6 credits from Category A.
  1. **Category A:** Ukrainian Language, Literature, and Culture
    - UKR 351: 3rd Year Ukrainian I
    - UKR 352: 3rd Year Ukrainian II
    - UKR 421: Directed Readings in Ukrainian Literature
    - SLAVIC 490: Issues in the Cultures of Eastern Europe, *section titled: "Introduction to Ukrainian Culture"*
    - UKR 320: Introduction to Ukrainian Poetry
  2. **Category B:** Eastern European Slavic Culture (*No more than 6 credits from this category*)

- HISTORY 432: Medieval and Early Modern Russia
- RUSSIAN 435: Cultural History of Russian Jews
- SLAVIC 240: Slavic Folklore
- SLAVIC 270 / JUDAIC 271: Contact and Conflict: Jewish Experience in Eastern Europe
- SLAVIC 313: Russian and Ukrainian Cinema
- HISTORY 332 / POLSCI 395 / REES 395 / SLAVIC 395 / SOC 392: Russia and the Soviet Union *section titled "Survey of Russia"*
- SLAVIC 490: Issues in the Cultures of Eastern Europe, *section titled: "Rock Kills Communism" or "Revolution in the Attic"*

#### **(Up to 3 Credits) Study Abroad, Summer Internships in Ukraine and/or Field Work in Ukrainian Communities of Metro Detroit.**

The Department offers help in negotiating summer internships with companies in Ukraine or within local Ukrainian communities.

# School of Social Work

## Community Action and Social Change (Minor)

This multidisciplinary minor is a collaboration between the School of Social Work, the College of Literature, Science and the Arts, the Program in American Culture, Psychology, Sociology, and the Program in Intergroup Relations, the Residential College and the Michigan Community Scholars Program.

The CASC minor uses critical structural thinking to engage students in analyzing types, levels and sources of power to better understand how inequities are manifested, maintained and reinforced in society and how these inequities can be addressed through community action and social change efforts. It will extend opportunities for undergraduate students to:

1. examine community action and social change concepts using a multidisciplinary framework;
2. address community action and social change efforts in multilingual and multicultural communities;
3. integrate, using a multidisciplinary framework, social justice values into the community action and social change processes; and
4. engage in service learning opportunities to promote community action or social change.

The courses that comprise this multidisciplinary minor are linked together through a common set of principles. These principles include:

1. Civic engagement is a critical component of undergraduate education.
2. Community engagement, action and social change need to incorporate social justice perspectives.
3. Undergraduate students need the theories and skills to:
  - recognize the importance of contexts on individual, group and interpersonal dynamics;
  - engage in critical sociopolitical/historical/structural analyses;
  - use a multi-level and multidisciplinary structural analysis and perspective;
  - acknowledge and address the role of power and privilege in community action and social change efforts; and
  - identify goals for community change and the strategies and tactics to work with others towards these goals.

### Declarations and Course Requirements

#### Spring/Summer and Fall 2017 Course Catalog

[Spring & Summer 2017 »](#)

[Fall 2017 »](#)

Thanks for your interest in the CASC minor. In order to declare the minor, please complete the following steps:

1. Attend an info session to find out more about the minor.
2. Complete this [online declaration form](#).
3. Meet with an academic advisor. Make an [appointment online](#) or email [cascminor@umich.edu](mailto:cascminor@umich.edu).
4. Drop in hours will be held every Wednesday from 1 - 4pm in CASC office room 3833 for inquires about declarations.

Please note, SW 305 is not a pre-requisite to the CASC minor. You may begin taking any of the cluster area courses before taking SW 305 and before declaring the minor.

#### Info Sessions

Prospective CASC students are welcome to join info sessions to learn more about academic course planning, requirements, and declarations for the minor. Info sessions for Fall 2016 will be hosted once a month in the School of Social Work room 1794 from 12 - 1pm on Friday September 16th, October 7th, November 4th, and December 2nd. Email [cascinfo@umich.edu](mailto:cascinfo@umich.edu) for additional inquires.

The 16 credit Community Action and Social Change minor requirements include:

#### Foundation Course:

**SW 305:** Theories and Practices for Community Action and Social Change (3 credits, SS distribution credit)

This foundation course is designed to prepare students to be informed and active participants in the process of community building and social change. The course uses a multidisciplinary framework to develop competencies that will help students envision what community action and social change look like, identify and implement steps towards social change, build on positive sources of power, indigenous knowledge and experiences of individuals, groups, and communities who are engaged in social change efforts.

#### CASC Elective Clusters:

(12 credits, minimum of 3 credits in each cluster)

- **Context Cluster:** These electives provide students with a range of context, theories and multidisciplinary perspectives to support understanding of various community action and social change efforts
- **Diversity Learning Cluster:** These electives provide students with skills and learning opportunities to facilitate diversity learning to support community action and social change efforts
- **Action Service Learning Cluster:** These electives provide students with opportunities to engage in service learning opportunities to promote community action and social change initiatives
- **Additional 3 credits:** An additional 3 credits chosen from any cluster is also required to complete the minor

*Note: Class substitutions may be made upon advisor approval.*

#### SW 401: Capstone Course

Upon completion of core course and electives, students will enroll in a [one-credit capstone course](#) to develop an integrative learning project,

in consultation with social work faculty advisors or other faculty steering committee members.

# Sociology

## Law, Justice, and Social Change (Minor)

Sociology has long served students interested in sociology; some of these students have deep interests in law, justice, and social change and advocacy. This minor offers those students a coherent curriculum that emphasizes the ways in which legal and other social institutions reproduce and exacerbate social inequalities, and the capacity of social groups to challenge such institutions in ways that produce fundamental social change. Students may select from a wide range of courses in which they will explore knowledge in criminology, law, social movements, and human rights.

This minor is intended for those students who have interests in law and/or social change, and for non-majors who are eager for the perspective that sociology brings to their understanding of law and justice. It offers students:

- An understanding of theoretical perspectives on justice and on the connections between law and society.
- Frameworks for thinking about legal compliance, deviance, and resistance.
- Perspectives for thinking about the relationship between “law on the books” and “law in actions”.
- Tools for thinking about the relationship between law and social change.
- What it means to “use” law in contexts outside the courtroom – including in families, neighborhoods, workplaces, social movements, mass media, prisons, and health care settings.
- Understandings of the law in international contexts and in regard to human rights issues.
- The foundation of theory, methods, and substantive knowledge necessary to develop informed perspectives on criminality, crime policy, and the social consequences of legal punishment.

*Effective Winter 2017*

### Exclusions:

*A minor in Law, Justice, and Social Change is not open to those electing a minor in Crime and Justice (Residential College). Students electing the Law, Justice, and Social Change minor may not declare a minor in History of Law and Policy.*

### Advising

A department advisor is available to students for one-on-one appointments to discuss the choice of sociology as a major (or minor), assist in course selection, and advise on co-curricular opportunities and career preparation. Students can schedule an advising appointment by calling the department at (734) 764-6324 or using the online appointment scheduler at <http://lsa.umich.edu/soc/undergraduates/advising.html>. Students can also email [socadvisor@umich.edu](mailto:socadvisor@umich.edu) with questions.

Students wishing to pursue a minor in Law, Justice, and Social change must develop a specific plan for its completion in consultation with the department advisors. Appointments are scheduled online at: <http://lsa.umich.edu/soc/undergraduates/advising.html>

### Grade Policies

Students must earn at least a C– in the prerequisites for the minor and in all courses they plan to include in the minor. Courses elected as pass/fail may not be included in the minor.

### Prerequisites

One of SOC 100, 102, 195, 300, or 302.

### Requirements

#### Minimum Credits: 15

A minimum of 15 credits from any combination of the courses listed below.

- SOC 204: International Migration and the Politics of Membership in a Globalizing World
- SOC 208: Terrorism, Torture, & Violence
- SOC 270 / WOMENSTD 270: Gender and the Law
- SOC 304: American Immigration
- SOC 335 / AAS 347 / RCSSCI 343: Urban Inequality in America
- SOC 350: Human Rights in the United Nations
- SOC 368: Criminology
- SOC 354: Law and Society
- SOC 450: Human Rights in a Globalizing World: How Human Rights Evolved and Changed the World
- SOC 461: Social Movements
- SOC 465 / PSYCH 488 / WOMENSTD 465: Sociological Analysis of Deviance
- SOC 468: Crime & Justice: Inside-Out Prison Exchange
- SOC 476: Sociology of Bioethics
- SOC 488: Organizing Internship
- SOC 489: Community Organizing and Social Change
- SOC 225 (or 389)\*: Practicum in Sociology (Project Community at a criminal justice site)

Students may also include the following courses with appropriate topics as approved by the department advisor:

- SOC 295: Topics in Sociology
- SOC 394: Undergraduate Research
- SOC 395: Independent Study
- SOC 396: Undergraduate Internship
- SOC 495: Topics in Sociology

### Constraints

A minimum of nine credits must be elected in the minor at the 300-level or above (not including prerequisites).

A maximum of 6 credits in the minor may come from experiential learning or independent study style courses. These include (but are not limited to) SOC 225, 394, 395, 396, and 488.

### Other Department Policies

The department of Sociology will allow one course with significant sociological content related to Law, Justice, and Social Change from other LSA departments or from transfer institutions to be included in the plan for the minor.

Students interested in petitioning to include a non-SOC or transfer course in their minor should complete the course petition process which includes submitting a petition form and the course syllabus.

## Law, Justice, and Social Change (Sub-Major)

Students have the option of adding a subplan in "Law, Justice, and Social Change" to their Sociology major. Courses in the Law, Justice, and Social Change submajor emphasize the ways in which legal and other social institutions reproduce and exacerbate social inequalities, and the capacity of social groups to challenge such institutions in ways that produce fundamental social change. A wide range of courses will explore how we understand the concepts of justice and apply it and will develop knowledge in criminology, law, social movements, human rights.

*Effective Fall 2014*

### Requirements

To have a notation of the submajor appear on your transcript, you must successfully complete a minimum of 12 credits from the following list:

- SOC 204, 208, 270, 335, 350, 354, 368, 450, 461, 465, 468, 476, 489
- appropriate topics in SOC 295, 495
- approved undergraduate research in SOC 394
- approved independent studies in SOC 395
- approved internships in SOC 396
- SOC 225 (or 389)\*: Practicum in Sociology (Project Community at a criminal justice site), sections titled "Criminal Justice: Prison - Creative Writing", "Criminal Justice: Jail (Men's and Women's) - Creative Writing", "Criminal Justice: Jail (Men's and Women's) - Art Workshop", and "Criminal Justice: American Friends Service Committee"

### Constraints

A maximum of 6 credits for the subplan may come from Experiential Learning or Independent Study style courses.

## Sociology (Major)

A major in sociology allows for a wide range of possible course elections, enabling students to create a personalized curriculum that matches their intellectual and career interests. The requirements for the major offer students a foundation in fundamental sociological

principles, practices, theories, and methodology. Flexible major electives allow students to study the discipline broadly or to focus on a specific area of the discipline that inspires them.

*Effective Winter 2017*

### Exclusions:

*Students may elect a subplan in either Law, Justice, and Social Change or the Sociology of Health and Medicine, but not both.*

### Advising

A department advisor is available to students for one-on-one appointments to discuss the choice of sociology as a major (or minor), assist in course selection, and advise on co-curricular opportunities and career preparation. Students can schedule an advising appointment by calling the department at (734) 764-6324 or using the online appointment scheduler at [www.lsa.umich.edu/soc](http://www.lsa.umich.edu/soc). Students can also email [socadvisor@umich.edu](mailto:socadvisor@umich.edu) with questions.

Students wishing to pursue a minor in Law, Justice, and Social change must develop a specific plan for its completion in consultation with the department advisors. Appointments are scheduled online at: [www.lsa.umich.edu/soc/undergraduate/advisingandprogrampolicies](http://www.lsa.umich.edu/soc/undergraduate/advisingandprogrampolicies).

### Grade Policies

Students must earn at least a C– in the prerequisites for the major and in all courses they plan to include in the plan for the major. Courses elected as pass/fail may not be included in the plan for the major.

### Prerequisites

- Students planning to major in sociology must elect and complete with a C- or better one of the following introductory courses before declaring the major: SOC 100, 102, 195, 300, 302.
- Freshmen and Sophomores electing an introductory course should elect SOC 100, SOC 102, or SOC 195.
- SOC 195 is restricted to first and second-year students who are in the LSA Honors Program and/or have a GPA of 3.2 or higher.
- Juniors and seniors electing an introductory course should elect SOC 300 or SOC 302.
- The prerequisite course cannot be included in the 33 credits required for completion of the plan for the major.

### Requirements

#### Minimum Credits: 33

After electing one of the introductory prerequisite courses, majors are required to complete at least 33 credits of SOC coursework at the 200 level or above, including:

1. *Statistics*: SOC 210, STATS 250, or STATS 280 (or their equivalent)
2. *Research Methods*: SOC 310. Must be taken on UM—Ann Arbor campus
3. *Sociological Theory*: SOC 305. Must be taken on UM—Ann Arbor campus

The remaining credits must come from SOC courses at the 200 level and above.

A minimum of fourteen elective credits must be elected at the 300-level or above. Students who wish to focus their elective coursework on a particular area of sociology are encouraged to consult with the department advisor.

### Course Planning

The research methods and statistics courses facilitate the understanding of sociological themes and concepts explored in upper-division courses. Students are strongly encouraged to complete the statistics course in the sophomore year, the research methods course before the end of the junior year, and complete all three of the required courses before the final academic term of the senior year. Students intending to write an honors thesis in sociology must take statistics before the first term of the junior year and the methods course no later than the second term of the junior year.

### Optional Sub-Majors:

[Law, Justice, and Social Change](#)  
[Sociology of Health and Medicine](#)

### Constraints

**Credit Limits and Exclusions.** A combined total of eight INDEPENDENT or EXPERIENTIAL credits may be included in the plan for the major. This includes but is not limited to SOC 225 (and 389), 321, 324, 394, 395, 396, and 488. There is an additional limit on SOC 225 (or 389) credits; only four credits of SOC 225 (or 389) may be included in the plan for the major.

A minimum of fourteen elective credits must be elected at the 300-level or above.

The department will allow up to two courses with significant sociological content from other LSA departments or transfer institutions to be included in the plan for the major. Students interested in petitioning to include a non-SOC transfer course in their major should complete the petition process which includes submitting a petition form and the course syllabus.

### Residency

The department expects that at least 18 of the 33 credits required for a sociology major be completed with Department of Sociology faculty on the UM–Ann Arbor campus. The research methods and sociological theory courses must be taken in residence on the UM–Ann Arbor campus.

## Sociology of Health & Medicine (Sub-Major)

Students have the option of adding a subplan in “Sociology of Health and Medicine” to their Sociology major. Courses in this subplan emphasize the socio-demographic, cultural, political, and ethical contexts that underlie health behavior and health policy. A wide variety of courses will explore the sociology of sexuality, sex, and the body, national and global health inequalities, and specialized topics in such areas as bioethics, the sociology of HIV/AIDS, and the sociology of death & dying.

*Effective Winter 2017*

### Requirements

To have a notation of the submajor appear on your transcript, you must successfully complete a minimum of 12 credits from the following list:

- SOC 230, 207, 330, 345, 346, 430, 445, 475, 476, 477
- appropriate topics in SOC 295, 495
- approved undergraduate research in SOC 394
- approved independent studies in SOC 395
- approved internships in SOC 396
- public health setting of SOC 225 (or 389)

### Constraints

A maximum of 6 credits for the subplan may come from Experiential Learning or Independent Study style courses.

A minimum of eight credits must be elected in the subplan at the 300-level or above (not including prerequisite)

## Sociology of Health and Medicine (Minor)

The Sociology of Health and Medicine Minor emphasizes the socio-demographic, cultural, political, and ethical contexts that underlie health behavior and health policy. A wide variety of courses will explore the sociology of sexuality, sex, and the body, national and global health inequalities, and specialized topics in such areas as bioethics, the sociology of HIV/AIDS, and the sociology of death & dying.

*Effective Winter 2017*

### Exclusions:

*Students with a declared academic major in Sociology with a subplan in Sociology of Health and Medicine are not permitted to minor in Sociology of Health and Medicine.*

### Advising

A department advisor is available to students for one-on-one appointments to discuss the choice of Sociology of Health and Medicine as a minor, assist in course selection, and advise on co-curricular opportunities and career preparation. Students can schedule an advising appointment by calling the department at (734) 764-6324 or using the online appointment scheduler at [www.lsa.umich.edu/soc](http://www.lsa.umich.edu/soc). Students can also email [socadvisor@umich.edu](mailto:socadvisor@umich.edu) with questions.

### Grade Policies

Students must earn at least a C- or better in the minor prerequisite and in all courses they plan to include in the minor plan. Courses elected as pass/fail may not be included in the minor plan.

### Prerequisites

One of:

- SOC 100 - Introduction to Sociology; or
- SOC 102 – Introduction to Sociology: Special Topics; or
- SOC 195 – Honors Introduction to Sociology; or
- SOC 300 – Sociological Principles and Problems, or
- SOC 300 - Health and Society: An Introduction to Sociology

### Requirements

**Minimum Credits:** 15

A minimum of 15 credits from any combination of the following courses:

- SOC 230- Health & Population in South Africa (4 credits)
- SOC 207- Sociology of Suffering (4 credits)
- SOC 225- Practicum in Sociology (Public Health Section) (3 credits)
- SOC 330- Population Problems (3 credits)
- SOC 345- Sociology of Sexuality (4 credits)
- SOC 346- Sociology of the Body (3 credits)
- SOC 430- World Population Dynamics (3 credits)
- SOC 445 / WOMENSTD 449- Diagnosis, Sex and Society (3 credits)
- SOC 477: Death & Dying (3-4 credits)
- SOC 475- Medical Sociology (3 credits)
- SOC 476- Sociology of Bioethics (3 credits)

Students may also include the following courses with appropriate topics as approved by a Sociology department advisor:

- SOC 295 – Topics in Sociology (1-4 credits)
- SOC 394- Undergraduate Research (1-4 credits)
- SOC 395 – Independent Study (1-4 credits)
- SOC 396- Undergraduate Internship (1 credit)
- SOC 495 – Topics in Sociology (1-4 credits)

#### Constraints

- **A minimum of nine credits must be elected in the minor at the 300-level or above (not including prerequisite).**
- A maximum of 6 credits in the minor plan may come from Experiential Learning or Independent Study style courses. These include but are not limited to SOC 225, SOC 394, SOC 395, and SOC 396.
- The department will allow up to one course with significant sociological content related to the Sociology of Health and Medicine from other LSA departments or transfer institutions to be included in the minor plan. Students interested in petitioning to include a non-SOC course or transfer course in their minor plan should complete the course petition process which includes submitting a petition form and the course syllabus.

# Statistics

The Department of Statistics offers an undergraduate major program in Statistics that consists of courses in applied and theoretical statistics, mathematics and computer science. Two undergraduate minor programs are also available: Applied Statistics and Statistics Minor Programs. The department also is the administrative home of the interdepartmental program in Informatics.

## Applied Statistics (Minor)

*Effective Winter 2015*

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

### Exclusions:

*Academic minors in Statistics are not open to students with a Statistics major or any other minor in Statistics.*

### Advising

Normally, most statistics courses are elected after an introductory mathematics sequence has been completed or after consulting a department advisor. See Department website for contact information: [lsa.umich.edu/stats/undergraduate-students/advising](http://lsa.umich.edu/stats/undergraduate-students/advising)

Students wishing to pursue a minor in Statistics must develop a specific plan for its completion in consultation with a Statistics Department undergraduate department advisor. See Department website for contact information: [lsa.umich.edu/stats/undergraduate-students/advising](http://lsa.umich.edu/stats/undergraduate-students/advising)

### Prerequisites

1. MATH 115.
2. One of: EECS 183 or 285, or SI 106, or ENGR 101

**Computing.** Computing is central to current statistical practice, both in and beyond universities. Modern statistical techniques often lend themselves to being understood in terms of algorithms and computation. Accordingly, instructors of courses serving statistics minors are increasingly integrating computation and algorithms into their instruction. We expect students to undertake the computing requirement prior to declaring a minor in the department.

### Requirements

**Minimum Credits:** 15

1. **Core Courses:** STATS 250 (or 350) or STATS 280; and STATS 401.
2. **Elective Statistics Courses:** At least three of the following courses: STATS 403, 408, 449, 470, 480. Advanced Statistics courses may be included with prior approval of a Statistics Department undergraduate department advisor.

### Constraints

The following courses may not be used as electives for the Applied Statistics minor: STATS 400, 404, 412, 489, 499

## Data Science (Major)

Data Science is a multidisciplinary undergraduate major, co-located in the College of Engineering (CoE) and the College of Literature, Science, and the Arts (LSA) and is jointly managed by the Division of Computer Science and Engineering (CSE) in the College of Engineering (CoE) and the Department of Statistics in LSA. The students from CoE will receive a BSE in Data Science and the students in LSA will receive a B.S. with a Data Science major.

The program draws on our expertise in Computer Science, Statistics, and Mathematics, complementing them with exposure to application domains to provide a multidisciplinary degree to develop future generations of data scientists. To provide exposure to application domains and to broader issues in data science, the data science program will include technical electives from LSA, Engineering, School of Information, and other U-M schools and colleges.

The undergraduate program in Data Science will provide sufficient background in mathematics (linear algebra and advanced calculus) and build a strong foundation in data science, covering data structures, algorithms, database management, and machine learning (courses in Computer Science) and data collection, data mining, modeling, and inference (Statistics). The Data Science program is designed to produce students with a deeper and broad intellectual understanding of both statistical and computing principles when working with big data, with those principles being applicable to a variety of domains. Students completing this program should be able to:

- find excellent jobs in industry where substantial experience in data science is desired
- attend graduate schools to pursue research in data science-related areas.

*Effective Fall 2016*

### Exclusions:

*Those completing the major in Data Science may not earn a minor in Computer Science or Statistics.*

### Advising

Faculty advisors are available on both Central and North campuses with a common coordinator across the two programs.

### Grade Policies

A grade of C or higher is required for all the required courses including the four required mathematics courses, all the EECS and STATS courses used toward the degree requirements, all the advanced technical electives in Data Science used toward the degree requirements and the capstone experience course.

The grade requirement applies to these courses irrespective of whether they are pre-major or major requirements.

### Prerequisites

**(each with minimum grade of C or higher)**

- *Calculus:* MATH 115, 116, and 215 (each completed with a minimum grade of C or higher)



- *Linear Algebra*: MATH 214 or 217 (completed with a minimum grade of C or higher)
- *Introductory Programming*: One of EECS 183, ENGR 101, or ENGR 151

## Requirements

### Minimum Credits: 42

A minimum of 42 credits is required (each with a minimum grade of C or higher), distributed as follows.

#### 1. Core:

##### 1. *Computing and Discrete Mathematics*

- EECS 203: Discrete Mathematics (preferred)  
*or*  
MATH 465: Introduction to Combinatorics
- EECS 280: Programming and Elementary Data Structures.

##### 2. *Computing and Statistics*

- EECS 281: Data Structures and Algorithms.
- STATS 412: Introduction to Probability and Statistics.
- STATS 413: The General Linear Model and Its Applications

##### 3. *Machine learning and data mining* (minimum 4 credits):

- EECS 445: Machine Learning  
*or*
- STATS 415: Data Mining

##### 4. *Data management and applications* (minimum 4 credits):

- EECS 484: Database Management Systems  
*or*
- EECS 485: Web Database and Information Systems

##### 5. *Data Sciences Applied to a Domain* (minimum 4 credits): A student must take at least one 400-level or higher course in which data science techniques are applied to a domain area.

- 400+ courses in Statistics and CSE on analytics in healthcare human behavioral analytics, financial analytics
- 400+ level courses in bioinformatics (specify: is this bioinformatics courses in any SUBJECT or courses in BIOINF)

- #### 2. **Capstone Experience.** One course of at least 4 credits approved as satisfying the Data Science Capstone Experience requirement. STATS 485 and the proposed Data Science-oriented CSE courses that also meet the Major Design Experience (MDE) requirements as playing this role.

If a student takes a required course that can also be used to provide capstone experience, the student must either not double count the credits or make up any overlapping credits by taking advanced elective courses.

- #### 3. **Advanced Technical Electives in Data Science:** At least 8 credits of advanced technical electives (at the 300-level or higher) that build on the foundation provided by the core courses and includes courses in data collection methods, scientific visualization, algorithms, security and privacy, mathematical modeling in biology, biostatistics, and optimization techniques. These courses must be selected from the list of courses below, or other courses by exception selected with advisor approval prior to taking the course.

- BIOINF 463 / BIOPHYS 463 / MATH 463: Mathematical Modeling in Biology
- BIOINF 527: Introduction to Bioinformatics & Computational Biology
- BIOINF 545 / STATS 545 / BIOSTAT 646: High Throughput Molecular Genomic and Epigenomic Data Analysis
- BIOINF 547 / MATH 547 / STATS 547: Probabilistic Modeling in Bioinformatics
- BIOPHYS 463 / BIOINF 463 / MATH 463: Mathematical Modeling in Biology
- BIOSTAT 449 / STATS 449: Topics in Biostatistics
- BIOSTAT 646 / BIOINF 545 / STATS 545: High Throughput Molecular Genomic and Epigenomic Data Analysis
- EECS 388: Introduction to Computer Security
- EECS 442: Computer Vision
- EECS 467: Autonomous Robotics
- EECS 477: Introduction to Algorithms
- EECS 484: Database Management Systems
- EECS 485: Web Database and Information Systems
- EECS 492: Introduction to Artificial Intelligence
- EECS 498: Special Topics (approved sections only. By default, EECS 498 sections will not count towards the Data Science advanced technical electives)
- EECS 4xx: Data Science and Healthcare
- EECS 4xx: Data Science and Human Behavior and Emotion Analytics
- EECS 545: Machine Learning
- EECS 549 / SI 650: Information Retrieval
- IOE 310: Introduction to Optimization Methods
- MATH 463 / BIOINF 463 / BIOPHYS 463: Mathematical Modeling in Biology
- MATH 547 / STATS 547 / BIOINF 547: Probabilistic Modeling in Bioinformatics

- MATH 548 / STATS 548: Computations in Probabilistic Modeling in Bioinformatics
- SI 639: Web Archiving
- SI 649: Information Visualization
- SI 650 / EECS 549: Information Retrieval
- STATS 403: Introduction to Quantitative Research Methods
- STATS 406: Introduction to Statistical Computing
- STATS 414: Special Topics in Statistics, section titled "Introduction to Bayesian Data Analysis"
- STATS 426: Introduction to Theoretical Statistics
- STATS 449 / BIOSTAT 449: Topics in Biostatistics
- STATS 470: Introduction to Design of Experiments
- STATS 480: Survey Sampling Techniques
- STATS 508: Statistical Analysis of Financial Data
- STATS 531: Analysis of Time Series
- STATS 545 / BIOINF 545 / BIOSTAT 646: High Throughput Molecular Genomic and Epigenomic Data Analysis
- STATS 547 / MATH 547 / BIOINF 547: Probabilistic Modeling in Bioinformatics
- STATS 548 / MATH 548: Computations in Probabilistic Modeling in Bioinformatics

#### Other Department Policies

#### Dual Majors with Computer Science

For a dual major with Computer Science, the student will need to take an additional 14 credits in pertinent technical subjects, with advisor approval in both Computer Science and Data Science, beyond satisfying the requirements for each of the majors.

#### Honors

Students are responsible for finding a faculty mentor whose research area aligns with the student's interest and who is willing to supervise their project. Statistics and CSE will designate a Capstone Thesis course that can be used to satisfy both the Data Science Honors requirement in LSA and the Capstone Experience requirement.

- Complete a research project under the direction of a faculty mentor in Computer Science or Statistics (and an optional a co-advisor from any department) by registering for a Capstone Thesis course in EECS or STATS. (The Capstone Thesis course, if completed successfully, will also count toward the Capstone Experience requirement, irrespective of whether the Honors designation is awarded.)
- Write an original thesis report on the research project and make a public presentation of the work. Satisfy the advisor and a second reader that the thesis report and the public presentation are worthy of the Honors designation.
- 3.5 GPA in the major and pre-major courses
- 3.4 overall U-M GPA (at the time of graduation)

## Informatics (Major)

### What is Informatics?

Informatics is the study of human and computer information processing systems from a socio-technical perspective. Michigan's unique interdisciplinary approach to this growing field of research and teaching emphasizes a solid grounding in contemporary computer programming, mathematics, and statistics, combined with study of the ethical and social science aspects of complex information systems. Experts in the field help design new information technology tools informed by scientific, business, and cultural contexts.

Informatics is where the technical accomplishments of computer science, mathematics, and statistics become embedded in the ways we interact, imagine, and produce in richer and more thoughtful ways. Students will obtain software development skills and learn a formal framework for making inferences from experimental and observational data, focusing on the manner and purpose in which people interact with information and information systems.

The major in Informatics is appropriate for students with varied interests and a range of background knowledge in information systems engineering, information analysis, and/or the use of information processing in biological, societal and emerging application areas. Students who complete the major are equipped to participate fully in important emerging areas such as bioinformatics, information analysis, large-scale information management, and human-centered information systems design. In addition, depending on which track a student selects, he or she develops the intellectual skills

- to analyze enormous quantities of information (Information Analysis Track);
- to apply information technology to large-scale, cutting-edge problems in the life sciences (Life Science Informatics Track).

Students concentrating in Informatics have many opportunities available to them after graduation. The major provides excellent preparation for jobs in the IT industry as product managers, human factors engineers, usability specialists, information analysts in sciences and science related industries, and designers working with large software development teams. Recruiters visiting the university frequently are seeking students with the ideals and skill sets that are provided by this program. Combined with work in specific knowledge domains, from nursing to economics, graduates of Michigan's Informatics major are vital in leading organizations to harness emerging technologies. The deep understanding of the connections between information technology, data analysis, and organizations and society is also excellent background for students seeking to enter law school, business school, medical school, or schools of public policy. And, depending on the track they complete, students are well prepared for graduate study in many fields, including statistics, computer science, information, law, medicine, public health, and natural and social sciences.

### Summary of Course Requirements and Prerequisites

The major in Informatics requires 40 credit hours for completion, including four core courses, 3-4 courses in one of two flexible tracks, plus electives selected from a list of recommended courses.

Four prerequisite courses serve as an introduction to core academic aspects of the curriculum and are required of all concentrators. The core serves as a tour of critical perspectives and investigative methodologies, an introduction to tools and techniques, and an entry point for further study. The four core courses provide grounding in

discrete mathematics, computer programs and models, research methods in applied statistics, and the ethical issues posed by new and emerging technologies. Each of the four core courses helps establish a foundation for the advanced study of informatics issues pursued through the specific informatics tracks. Core courses may be taken in any order and are required for completion of the major. Students may enroll in track courses before they have completed the entire core curriculum.

In pursuing the major in Informatics, students have the flexibility to specialize in one of two tracks: Information Analysis or Life Science Informatics. Each of the tracks requires three to four courses, some of which will have associated prerequisite courses enforced at registration. The tracks consist of a set of carefully chosen courses that together convey the necessary intellectual perspectives and foundational skills of the track.

In addition to the major's core and track requirements, students select major electives from a list of recommended courses. The breadth of electives will allow students to add intellectual depth to their selected track studies or to broaden their perspective on other aspects of the informatics field. The Faculty Steering Committee for the major will entertain appeals from students to substitute elective courses other than those in the list of recommended electives.

#### **A. Data Mining & Information Analysis Track (*inactive as of Spring 2017*)**

The collection, analysis, and visualization of complex data play critical roles in research, business, and government. Powerful tools from applied statistics, mathematics, and computational science can be used to uncover the meaning behind complex data sets. The Data Mining and Information Analysis track integrates these disciplines to provide students with practical skills and a theoretical basis for approaching challenging data analysis problems. Students in this track learn how to develop and test models for making predictions, to search through large collections of data for rare and unexpected patterns, and to characterize the degree of certainty associated with discoveries made in the course of data analysis. Skills and knowledge acquired in this track are increasingly important in the job market and are highly relevant for a number of graduate school programs.

#### **B. Life Science Informatics Track**

Using artificial information systems, scientists have made great progress in identifying core components of organisms and ecosystems and are beginning to better understand how these components behave and interact with each other. In fact, biology has become an information science, as computational techniques have become an important means to develop and evaluate biological hypotheses. Informatics is used from basic biological research—studying how patterns of gene expression differ across various cell types—to the practice of medicine, where informatics is used to compare treatments, to identify social correlates of health, and to evaluate possible changes in health policy. The Life Science Informatics track prepares students for careers and advanced study in a number of information-related fields in the life sciences, as well as medical school and other areas of graduate study.

*Effective Winter 2014*

#### **Advising**

The Academic Program Manager and members of the Faculty Steering Committee that designed the major share responsibility for major advising. Students who are interested in the Informatics major should consult with an Academic Advisor in the Newnan LSA Academic Advising Center during their freshman year and are strongly

encouraged to meet with a department advisor early in their academic career. To make an appointment with a department advisor, please contact [informatics@umich.edu](mailto:informatics@umich.edu).

#### **Grade Policies**

##### **Field of Major and GPA calculation**

For purposes of calculating grade point average, the term "field of the major" means the following:

1. All STATS courses.
2. All courses used to meet requirements for the major.
3. All mandatory major prerequisites.

#### **Prerequisites**

**It is not necessary to complete all prerequisite courses prior to declaring an Informatics major. Minimum grade for all prerequisite courses is a C.**

##### **Prerequisites to Core Courses**

1. SI 110 / SOC 110 with a C or better;
2. MATH 115 with a C or better;
3. EECS 182 / SI 182 or EECS 183 with a C or better;
4. STATS 250 or 280 with a C or better.

##### **Prerequisite to Declaration**

MATH 115, STATS 250 or 280, and EECS 182 or 183.

#### **Requirements**

##### **Minimum Credits: 40**

A minimum of 12 courses and a minimum of 40 credits.

1. **Core:** EECS 203, EECS 280, STATS 403
2. **Subplans:** Completion of one of the following tracks:

1. **Data Mining & Information Analysis track:**

1. MATH 217
2. STATS 406
3. STATS 415
4. One of the following Quantitative courses:
  - MATH 425, 471, 561, 562, 571
  - STATS 425, 500
  - IOE 310, 510, 511, 512
5. **Electives\*:** 8 credits must be elected at the 300-level or higher

2. **Life Science Informatics track:**

1. BIOINF 527
2. One of the following Life Sciences courses:

- BIOLOGY 305
  - MCDB 310
3. Two of the following Quantitative/Computational courses:
- EECS 376, 382, 485
  - STATS 401, 449, 470
  - BIOSTAT 449
4. *Electives\**: 12-14 credits; 4 credits must be elected at the 300-level or higher.
3. **Electives**: Additional Informatics electives to bring total major credits to 40 credits (44 for Data Mining track). The number of electives required for each track varies, depending on the number of required core courses in the track. Informatics majors be allowed to select their electives from one of the following lists of courses, depending on their chosen track. Students who wish to use an elective that is not on this list should consult their track advisor before taking the course.

#### Informatics Pre-Approved Electives

Students may chose electives for their declared track from the following pre-approved lists of electives without consultation of the track advisor.

Note: Only one elective course in a track indicated with "\*" can be taken for elective credit.

#### Data Mining & Information Analysis Track

- BIOINF 463 / MATH 463 / BIOPHYS 463: Math Modeling in Biology
- BIOINF 527: Introduction to Bioinformatics & Computational Biology\*
- BIOINF 545 / STATS 545 / BIOSTAT 646: Molecular Genetic and Epigenetic Data\*
- BIOINF 547 / MATH 547 / STATS 547: Probabilistic Modeling in Bioinformatics
- BIOINF 551 / BIOLCHEM 551 / CHEM 551 / BIOMEDE 551 / PATH 551: Proteome Informatics\*
- BIOLCHEM 551 / CHEM 551 / BIOINF 551 / BIOMEDE 551 / PATH 551: Proteome Informatics\*
- BIOMEDE 551 / BIOLCHEM 551 / CHEM 551 / BIOINF 551 / PATH 551: Proteome Informatics\*
- BIOPHYS 463 / MATH 463 / BIOINF 463: Math Modeling in Biology
- BIOSTAT 449 / STATS 449: Topics in Biostatistics
- BIOSTAT 646 / BIOINF 545 / STATS 545: Molecular Genetic and Epigenetic Data\*
- CHEM 551 / BIOLCHEM 551 / BIOINF 551 / BIOMEDE 551 / PATH 551: Proteome Informatics\*
- CMPLXSYS 510 / MATH 550: Introduction to Adaptive Systems\*

- EECS 281: Data Structures and Algorithms
- EECS 376: Foundations of Computer Science
- EECS 382: Internet-scale Computing
- EECS 476: Theory of Internet Applications
- EECS 477: Introduction to Algorithms
- EECS 481: Software Engineering
- EECS 484: Database Management Systems
- EECS 485: Web Database and Information Systems
- EECS 487: Interactive Computer Graphics
- EECS 489: Computer Networks
- EECS 492: Introduction to Artificial Intelligence
- EECS 493: User Interface Development
- HONORS 352: Honors Introduction to Research in the Natural Sciences (*section titled "Cyberscience"*)
- IOE 510 / MATH 561 / OMS 518: Linear Programming I\*
- IOE 511 / MATH 562: Continuous Optimization Methods\*
- IOE 512: Dynamic Programming\*
- MATH 416: Theory Algorithms
- MATH 425 / STATS 425: Introduction to Probability
- MATH 433: Introduction to Differential Geometry
- MATH 451: Advanced Calculus I
- MATH 462: Mathematical Models
- MATH 463 / BIOINF 463 / BIOPHYS 463: Math Modeling in Biology
- MATH 471: Introduction to Numerical Methods
- MATH 525 / STATS 525: Probability Theory
- MATH 526: Discrete State Stochastic Processes
- MATH 547 / BIOINF 547 / STATS 547: Probabilistic Modeling in Bioinformatics
- MATH 548 / STATS 548: Computations in Probabbilistic Modeling in Bioinformatics
- MATH 550 / CMPLXSYS 510: Introduction to Adaptive Systems\*
- MATH 561 / IOE 510 / OMS 518: Linear Programming I
- MATH 562 / IOE 511: Continuous Optimization Methods
- MATH 571: Numerical Methods for Scientific Computing I
- MCDB 408: Genomic Biology
- OMS 518 / IOE 510 / MATH 561: Linear Programming I\*
- PATH 551 / BIOLCHEM 551 / CHEM 551 / BIOINF 551 / BIOMEDE 551: Proteome Informatics\*

- SI 301: Models of Social Information Processing\*
- SI 422: Evaluation of Systems and Services\*
- SI 508: Networks: Theory and Application
- SI 572: Database Design\*
- SI 583: Recommender Systems\*
- SI 631: Practical I Engagement Workshop: Content Management Systems\*
- SI 679: Aggregation and Prediction Markets\*
- SI 683: Reputation Systems\*
- SI 689: Computer Supported Cooperative Work\*
- STATS 401: Applied Statistical Methods II
- STATS 408: Statistical Principles for Problem Solving: A Systems Approach
- STATS 425 / MATH 425: Introduction to Probability
- STATS 426: Introduction to Theoretical Statistics
- STATS 430: Applied Probability
- STATS 449 / BIOSTAT 449: Topics in Biostatistics
- STATS 470: Introduction to the Design of Experiments
- STATS 480: Survey Sampling Techniques
- STATS 500: Applied Statistics I
- STATS 525 / MATH 525: Probability Theory
- STATS 526 / MATH 526: Discrete State Stochastic Processes
- STATS 545 / BIOINF 545 / BIOSTAT 646: Molecular Genetic and Epigenetic Data\*
- STATS 547 / MATH 547 / BIOINF 547: Probabilistic Modeling in Bioinformatics
- STATS 548 / MATH 548: Computations in Probabilistic Modeling in Bioinformatics
- BIOPHYS 463 / MATH 463 / BIOINF 463: Math Modeling in Biology
- BIOSTAT 449 / STATS 449: Topics in Biostatistics
- BIOSTAT 646 / BIOINF 545 / STATS 545: Molecular Genetic and Epigenetic Data
- CHEM 551 / BIOLCHEM 551 / BIOINF 551 / BIOMEDE 551 / PATH 551: Proteome Informatics
- CMLXSYS 510 / MATH 550: Introduction to Adaptive Systems
- EEB 485: Population and Community Ecology\*
- EECS 281: Data Structures and Algorithms
- EECS 376: Foundations of Computer Science
- EECS 382: Internet-scale Computing
- EECS 476: Theory of Internet Applications
- EECS 477: Introduction to Algorithms
- EECS 481: Software Engineering
- EECS 484: Database Management Systems
- EECS 485: Web Database and Information Systems
- EECS 487: Interactive Computer Graphics
- EECS 489: Computer Networks
- EECS 492: Introduction to Artificial Intelligence
- EECS 493: User Interface Development
- HONORS 352: Honors Introduction to Research in the Natural Sciences (*section titled "Cyberscience"*)
- MATH 416: Theory Algorithms
- MATH 425 / STATS 425: Introduction to Probability
- MATH 433: Introduction to Differential Geometry
- MATH 451: Advanced Calculus I
- MATH 462: Mathematical Models
- MATH 463 / BIOINF 463 / BIOPHYS 463: Math Modeling in Biology
- MATH 471: Introduction to Numerical Methods
- MATH 525 / STATS 525: Probability Theory
- MATH 526: Discrete State Stochastic Processes
- MATH 547 / BIOINF 547 / STATS 547: Probabilistic Modeling in Bioinformatics
- MATH 548 / STATS 548: Computations in Probabilistic Modeling in Bioinformatics
- MATH 550 / CMLXSYS 510: Introduction to Adaptive Systems
- MCDB 408: Genomic Biology
- MCDB 411: Protein Structure and Function

#### Life Science Informatics Track

- BIOINF 463 / MATH 463/BIOPHYS 463: Math Modeling in Biology
- BIOINF 545 / STATS 545 / BIOSTAT 646: Molecular Genetic and Epigenetic Data
- BIOINF 547 / MATH 547 / STATS 547: Probabilistic Modeling in Bioinformatics
- BIOINF 551 / BIOLCHEM 551 / CHEM 551 / BIOMEDE 551 / PATH 551: Proteome Informatics
- BIOLCHEM 551 / CHEM 551 / BIOINF 551 / BIOMEDE 551 / PATH 551: Proteome Informatics
- BIOMEDE 551 / BIOLCHEM 551 / CHEM 551 / BIOINF 551 / PATH 551: Proteome Informatics
- BIOINF 463 / MATH 463/BIOPHYS 463: Math Modeling in Biology
- MATH 471: Introduction to Numerical Methods
- MATH 525 / STATS 525: Probability Theory
- MATH 526: Discrete State Stochastic Processes
- MATH 547 / BIOINF 547 / STATS 547: Probabilistic Modeling in Bioinformatics
- MATH 548 / STATS 548: Computations in Probabilistic Modeling in Bioinformatics
- MATH 550 / CMLXSYS 510: Introduction to Adaptive Systems
- MCDB 408: Genomic Biology
- MCDB 411: Protein Structure and Function

- PATH 551 / BIOLCHEM 551 / CHEM 551 / BIOINF 551 / BIOMEDE 551: Proteome Informatics
- SI 301: Models of Social Information Processing\*
- SI 422: Evaluation of Systems and Services\*
- SI 572: Database Design
- SI 631: Practical I Engagement Workshop: Content Management Systems\*
- SI 689: Computer Supported Cooperative Work\*
- STATS 401: Applied Statistical Methods II
- STATS 406: Introduction to Statistical Computing
- STATS 408: Statistical Principles for Problem Solving: A Systems Approach
- STATS 415: Data Mining
- STATS 425 / MATH 425: Introduction to Probability
- STATS 426: Introduction to Theoretical Statistics
- STATS 430: Applied Probability
- STATS 449 / BIOSTAT 449: Topics in Biostatistics
- STATS 470: Introduction to the Design of Experiments
- STATS 480: Survey Sampling Techniques
- STATS 500: Applied Statistics I
- STATS 525 / MATH 525: Probability Theory
- STATS 526 / MATH 526: Discrete State Stochastic Processes
- STATS 545 / BIOINF 545 / BIOSTAT 646: Molecular Genetic and Epigenetic Data
- STATS 547 / MATH 547 / BIOINF 547: Probabilistic Modeling in Bioinformatics
- STATS 548 / MATH 548: Computations in Probabilistic Modeling in Bioinformatics

### Constraints

Informatics majors may not use any STATS courses toward the Area Distribution requirement.

### Honors

Students interested in doing original research in informatics are encouraged to consider the Informatics Honors Plan. The Honors major is open to all Informatics majors who have achieved both a major GPA and an overall GPA of 3.4 or better. At least one year prior to graduation, interested students should identify a member of the U-M faculty with informatics expertise to serve as their faculty advisor. Together with that person, the student prepares a 2-3 paragraph summary of the proposed thesis project, which is submitted together with the Honors Plan Application to the Informatics Program Coordinator for review by department advisors. The student completes the thesis work in the senior year, while enrolling in 3-4 credits of independent study (such as EECS 499, MATH 399, SI 491, STATS 489, HONORS 390, or HONORS 490). At least six weeks before the last day of classes in the term in which the student will complete the independent study and thesis, an electronic copy of the final Honors thesis is

submitted to the Informatics program coordinator. The faculty advisor then solicits comments on the completed thesis from an independent reader, and the student presents the work in a public forum.

## Statistics (Major)

The major prepares students for careers in industry and government as well as for graduate programs in statistics and quantitative fields. It emphasizes critical thinking and problem solving skills in data analysis and empirical research. The major includes a core set of courses in applied statistics, statistical theory, and computational statistics. Elective courses cover specific classes of statistical techniques, or focus on research areas where statistical analysis plays a major role. Statistics majors learn to apply the skills they learn to diverse application areas including medicine, finance, public policy, and information technology. Students can tailor their electives to prepare themselves for appropriate graduate programs.

*Effective Fall 2016*

### Advising

Normally, most statistics courses are elected after an introductory mathematics sequence has been completed or after consulting a department department advisor. See Department website for contact information: [lsa.umich.edu/stats/undergraduate-students/advising](http://lsa.umich.edu/stats/undergraduate-students/advising)

Students wishing to pursue a minor in Statistics must develop a specific plan for its completion in consultation with a Statistics Department undergraduate department advisor. See Department website for contact information: [lsa.umich.edu/stats/undergraduate-students/advising](http://lsa.umich.edu/stats/undergraduate-students/advising)

**Computing.** Computing is central to current statistical practice, both in and beyond universities. Modern statistical techniques often lend themselves to being understood in terms of algorithms and computation. Accordingly, instructors of courses serving statistics minors are increasingly integrating computation and algorithms into their instruction. We expect students to undertake the computing requirement prior to declaring a minor in the department.

### Prerequisites

- MATH 215 and 217 (MATH 417 may not be substituted for MATH 217)
- EECS 182 (preferred) or EECS 183
- STATS 250, 280, or 412

### Requirements

**Minimum Credits:** 26

1. **Core Statistics courses:** STATS 413, 425, 426.
2. **Core Computing course:** STATS 406.
3. **Additional Statistics courses:** At least one of STATS 415, 430, 470, or 480.
4. **Capstone Course:** STATS 485
5. **Elective courses in Statistics, Mathematics, or EECS.** These are advisor approved electives. These approved courses include:
  - STATS 404, 408, 449
  - any 500+ level Statistics courses

- any additional courses from #3 above
- 400+ level *advisor-approved* MATH courses (except MATH 417 and 419)
- 300+ level *advisor-approved* EECS course.

- **Elective Statistics Courses:**

At least three additional 400-level STATS courses to bring the credit total to 15, chosen in consultation with and approved by a Statistics Department undergraduate department advisor.

Students interested in the application of statistics to various disciplines such as economics, biological sciences, and psychology are also encouraged to take courses in these areas.

### Honors

Any student who has maintained an overall grade point average of at least 3.4 through the sophomore year may apply for admission to the Honors major program. Such application is made through a Statistics Department undergraduate department advisor. Students in the Honors program must complete the regular major program above with the following modifications: MATH 451 and an overall GPA of at least 3.5. In addition, Honors majors must elect the Senior Honors Seminar (STATS 499) and complete a project under the direction of a member of the faculty. This additional requirement should be arranged and discussed with a Statistics Department undergraduate department advisor.

## Statistics (Minor)

The Statistics minor program is designed to equip students with a general introduction to probability and statistics. It allows a broad selection of classes to suit both general and specific interests.

*Effective Spring 2017*

### Exclusions:

*Academic minors in Statistics are not open to students with a Statistics major, a Data Science major or any other minor in Statistics.*

### Advising

Normally, most statistics courses are elected after an introductory mathematics sequence has been completed or after consulting a department department advisor. See Department website for contact information: [lsa.umich.edu/stats/undergraduate-students/advising](https://lsa.umich.edu/stats/undergraduate-students/advising)

Students wishing to pursue a minor in Statistics must develop a specific plan for its completion in consultation with a Statistics Department undergraduate department advisor. See Department website for contact information: [lsa.umich.edu/stats/undergraduate-students/advising](https://lsa.umich.edu/stats/undergraduate-students/advising)

### Prerequisites

- MATH 215.
- One of: EECS 183 or 285, or SI 106, or ENGR 101

**Computing.** Computing is central to current statistical practice, both in and beyond universities. Modern statistical techniques often lend themselves to being understood in terms of algorithms and computation. Accordingly, instructors of courses serving statistics minors are increasingly integrating computation and algorithms into their instruction. We expect students to undertake the computing requirement prior to declaring a minor in the department.

### Requirements

**Minimum Credits:** 15

- **Core Courses:** STATS 250 (or 350) or STATS 280, and STATS 425; or STATS 412 and 425.

### Constraints

The following courses may not be used as electives for the Statistics minor: STATS 400, 404, 412, 489, 499.

# Gayle Morris Sweetland Center for Writing

## Writing (Minor)

The Minor in Writing is designed for all UM undergraduates who are interested in developing their disciplinary and professional writing abilities while pursuing concentrations across the liberal arts and sciences.

*Effective Winter 2016*

### Advising

Students must apply to and be accepted by the Sweetland Center for Writing in order to declare the Minor in Writing. Applications are accepted twice a year, in March and October.

General questions about the minor should be sent to [sweetlandwritingminor@umich.edu](mailto:sweetlandwritingminor@umich.edu). To meet with an advisor regarding course selections, progress-to-degree and your minor release, schedule an appointment online by selecting Minor in Wrtg from the drop down menu in [Sweetland's scheduling system](#).

### [Sweetland Center for Writing Departmental Information](#)

Learn more about this center's undergraduate course offerings and the various types of writing support available to all student writers at the University of Michigan.

### Grade Policies

- Students must have completed their First-Year Writing Requirement with a grade of C or higher.
- Engineering students must have completed Engineering 100 with a grade of C or higher.
- Students must complete the courses applied toward the minor with an average minimum GPA of 3.3.

### Prerequisites

- Students must have completed their First-Year Writing Requirement with a grade of C or higher. Engineering students must have completed Engineering 100 with a grade of C or higher. Transfer students can complete the FYWR with a transfer course approved by Sweetland.
- Students must have at least three full terms remaining in their academic program.
- Students must be able to enroll in WRITING 220: Introduction to the Minor in their first semester in the Minor.

Applications will be considered twice a year, in March and October. Students must apply to and be accepted by the Sweetland Center for Writing in order to declare the Minor in Writing.

### Requirements

#### Minimum Credits: 15

1. WRITING 220: Intro to the Minor in Writing – gateway course, which must be taken in the students first full semester after being accepted into the minor.
2. One of the following courses:
  - ENGLISH 225: Academic Argumentation
  - ENGLISH 229: Professional Writing
  - ENGLISH 325: Art of the Essay
  - LHSP 230: Writing and the Arts II
  - WRITING 200: New Media Writing
3. One Upper-Level Writing Requirement course in the major, which may also satisfy a requirement for the major (3-4)
4. One additional Upper-Level Writing Requirement course which cannot satisfy a requirement for the major (3-4)
5. WRITING 420: Minor in Writing Capstone – capstone course



# Women's Studies

## Gender and Health (Major)

The major offers a critical, feminist analysis of research, practice, and policies concerning gender and health. Specifically, the major allows students to examine the intersections of social categories, such as gender, race / ethnicity, social class, and sexuality, with conceptualizations of health, healthcare delivery, and health-related policies. Moreover, students, for example, investigate the limits of the biomedical model, apply a feminist lens to the understanding, critique, and construction of health, explore health-related issues within a global and transnational context, grapple with ethical dilemmas in real-world case studies, and critically analyze the impact of power inequalities in specific health-related areas (e.g., the use of medical technologies and treatment of epidemic diseases).

The major offers students a truly interdisciplinary, liberal arts experience with a variety of courses, spanning disciplinary approaches in the humanities and social sciences. It provides students with intellectually rich, challenging, and suitable academic preparation for a diverse series of jobs and advanced graduate or professional training.

Effective Fall 2016

### Exclusions:

*Gender and Health majors may not major in Women's Studies or minor in Gender and Health.*

### Advising

**Advising** appointments are made online. To make an advising appointment, please see the bottom left hand corner of the Women's Studies website main page: [www.lsa.umich.edu/women](http://www.lsa.umich.edu/women).

Students wishing to pursue a minor in Women's Studies must develop a specific plan for its completion in consultation with the department's designated advisor. Advising appointments are made online. To make an advising appointment, please see the bottom left-hand corner of the Women's Studies website main page: [www.lsa.umich.edu/women](http://www.lsa.umich.edu/women).

### Grade Policies

To complete the major, students must receive a grade of C- or above in all required courses.

### Prerequisites

WOMENSTD 220 / NURS 220. Perspectives in Women's Health

### Requirements

**Minimum Credits:** 33

#### 1. Core:

##### 1. **Feminist Theory Seminar.** One of the following:

- WOMENSTD 330: Feminist Thought
- WOMENSTD 331: Feminist Theoretical Perspectives in Gender and Health

##### 2. The **Practicum course requirement** is intended to ensure that majors gain exposure to and participate in hands-on research or community service internships in which critical feminist approaches to gender and health are materially relevant. By approval of both the relevant instructor and the

WOMENSTD undergraduate office, students may satisfy this requirement with courses that allow them an immersive experience with gender and health-related research, service learning, or mentorships focused on gender and health issues. Three courses that will satisfy the practicum requirement are:

- WOMENSTD 350: Nonprofit Management, Community Engagement, and Feminist Practice
- WOMENSTD 351: Leading Feminism (W17)
- WOMENSTD 384: Independent Research (by department advisor approval) Students obtain approval from the instructor and the department advisor to do so via their participation in appropriately focused research or an apprentice-based research project that focuses on gender and health issues.
- WOMENSTD 404 / HS 404: Gender Based Violence: From Theory to Action.

#### 3. **Thematic Area Requirements.** Complete at least one course in each of four thematic areas. **A course cannot be double counted to meet more than one thematic area requirement.**

1. **LGBTQ and Sexuality Studies in Health.** These courses focus on sexual minority health and the contributions of feminist scholarship and queer theory as applied to the development of sexual identities, understandings of sexual health, and the experiences of LGBTQ people with healthcare delivery, health related policies, and social justice movements, as well as the history of sexuality more generally.

- WOMENSTD 239 / AMCULT 239: Gender, Sexuality, and Health in America
- WOMENSTD 314 / ENGLISH 314: Gender and Sexuality Studies in Literature, *section titled "The Culture of AIDS"*
- WOMENSTD 394 / PSYCH 394: Sex, Sexuality, and Public Policy
- WOMENSTD 407: Intersexualities
- WOMENSTD 432: Advanced Topics in Gender & Health, *section titled "Diagnosis, Sex & Society"*
- WOMENSTD 449 / SOC 445: Diagnosis, Sex & Society
- WOMENSTD 452 / PSYCH 414: Sexuality and Science

- WOMENSTD 494 / PSYCH 494: Adolescent Sexuality
- SOC 495: Topics in Sociology, *section titled "Diagnosis, Sex & Society"*

2. **Critical Race and Ethnic Studies in Gender and Health.** These courses will rely on a feminist perspective to examine how the intersections of gender, race, and ethnicity (and other salient categories of identity) impact health-related issues (e.g., conceptualizations of disease and well-being, social disparities in health and healthcare seeking, relations between healthcare providers and patients) with a primary focus on the United States.

- WOMENSTD 233 / AMCULT 233: Genes and Society: Comparative and International Perspectives
- WOMENSTD 239 / AMCULT 239: Gender, Sexuality, and Health in America
- WOMENSTD 291 / PSYCH 291: Introduction to Psychology of Women and Gender
- WOMENSTD 343: Special Topics in Gender, Race, and Ethnicity in the U.S. (*certain topics*)
- WOMENSTD 356 / AMCULT 331 / HISTORY 356: Health in America: Patterns, Experiences, and Inequalities
- WOMENSTD 443 / AAS 443: Pedagogy of Empowerment: Activism in Race, Gender, and Health

3. **Gender and Health in Bioscience.** These courses present students with knowledge about basic biological processes, pertaining to healthy developmental periods, life transitions, or particular illnesses, in combination with critical feminist examinations about the process of conducting research in the biological sciences and the applications and societal impact of such work.

- WOMENSTD 233 / AMCULT 233: Genes and Society: Comparative and International Perspectives
- WOMENSTD 296 / HISTORY 296 / PSYCH 296: Gender, Sex Differences, and Addiction: Girls Gone Wild
- WOMENSTD 300: Men's Health
- WOMENSTD 400: Women's Reproductive Health
- WOMENSTD 407: Intersexualities
- WOMENSTD 452 / PSYCH 414: Sexuality and Science

4. **Gender and Health in Global, Transnational, or Historical Perspectives.** In this thematic area, one set of courses offers a comparative cross-cultural perspective on health-related phenomena by relying upon feminist theories and global feminisms to place topics of study in a global, transnational context. Another set of courses provides students with the comparative vision promoted through in-depth understanding of the rich and complex historical background of many current health-related issues.

- WOMENSTD 212 / ANTHRCUL 212 / NURS 225: The Global HIV/AIDS Epidemic
- WOMENSTD 233 / AMCULT 233: Genes and Society: Comparative and International Perspectives
- WOMENSTD 239 / AMCULT 239: Gender, Sexuality, and Health in America
- WOMENSTD 242 / AMCULT 242: Gender and Violence in a Global Context
- WOMENSTD 296 / HISTORY 296 / PSYCH 296: Gender, Sex Differences, and Addiction: Girls Gone Wild
- WOMENSTD 307 / ANTHRCUL 327 / RCSSCI 327: Critical Theory in Medicine and Healing
- WOMENSTD 324 / ANTHRCUL 325: Childbirth & Culture
- WOMENSTD 328 / AAS 328: Women, Agency and Sexual Safety
- WOMENSTD 342: Topics in Gender & Health, *section titled "Histories of Women, Medicine and Reproduction"* (F17)
- WOMENSTD 345: Topics in Gender in a Global Context, *section titled "Sexual Violence and the State"* (F17)
- WOMENSTD 356 / AMCULT 331 / HISTORY 356: Health in America: Patterns, Experiences, and Inequalities
- WOMENSTD 365 / AAS 365: Global Perspectives on Gender, Health, and Reproduction
- WOMENSTD 432: Advanced Topics in Gender and Health, *sections titled "Introduction to Global Health" or "Gender and Mental Health in the 19th Century"* (F17)



- PUBPOL 210/ PUBHLTH 200 / HMP 200: Health and Society: Introduction to Public Health
- RCSSCI 275 / HISTORY 285: Science, Technology, Medicine, and Society

### Constraints

A maximum of six credits of WOMENSTD independent study may be taken towards the major – excluding independent study credits that meet the practicum requirement.

### Residency

For completion of the major, 14 credits of gender and health courses must be taken in residence on the Ann Arbor campus, including WOMENSTD 440: Senior Capstone and not including cognates. "In-residence" means courses elected on the Ann Arbor campus or at off-campus sites directed by Ann Arbor faculty. This includes STDABRD, Camp Davis, Biological Station, Michigan-in-Washington.

### Honors

Gender and Health majors who maintain an overall GPA of at least 3.4 through the first term of their junior year and a 3.5 in their Gender and Health courses will be eligible to complete their degree with a Gender and Health Honors designation. Most importantly, Gender and Health majors who wish to pursue an Honors Thesis will have an opportunity to complete a comprehensive, original independent project under the guidance of a Women's Studies faculty member with expertise in topics related to gender and health.

Student elect:

- WOMENSTD 389: Junior Honors Seminar (may also count as an elective)

and the following additional courses:

- WOMENSTD 441: Senior Honors Seminar 1
- WOMENSTD 442: Senior Honors Seminar 2
- WOMENSTD 490: Honors Thesis
- WOMENSTD 491: Honors Thesis

## Gender and Health (Minor)

This minor allows students to develop a minor major through courses that focus on gender and health across a variety of disciplinary perspectives. At the same time, this minor is designed to focus students' studies of gender and health from a feminist perspective. The minor provides an opportunity for students to develop their skills in critical analysis as they explore how the social category of gender and conceptualizations of health, health care, and health policy intersect.

Coursework on a range of topics allows students to engage critically with the biomedical model of health in order to broaden and deepen their understanding of what constitutes health by exploring, for example, the relationship between health and disease. In all courses, students will be challenged to consider the implications of a critical gender analysis of health for health care delivery, the health care professions, and health policy domestically and transnationally.

Effective Fall 2016

### Exclusions:

Gender and Health majors may not minor in Gender and Health.

### Advising

Students wishing to pursue a minor in Women's Studies must develop a specific plan for its completion in consultation with the department's designated advisor. Advising appointments are made online. To make an advising appointment, please see the bottom left-hand corner of the Women's Studies website main page: [/lsa.umich.edu/women/undergraduates/advising](https://lsa.umich.edu/women/undergraduates/advising).

### Prerequisites

None.

### Requirements

#### Minimum Credits: 15

Five courses totaling at least 15 credits, to be chosen from the following categories as stated:

1. **Foundational Course:** WOMENSTD 220/NURS 220: Perspectives in Women's Health
2. **Electives:** Four electives from the listing below (*at least two courses must be upper-level courses, with at least one at the 400-level*). One of these courses must be an **upper-level seminar** and one must be from a transnational, global, or historical perspective as indicated below. (A single course may satisfy more than one of these requirements).
  - WOMENSTD 212: The Global HIV/AIDS Epidemic
  - WOMENSTD 225: Psychology of Human Sexuality
  - WOMENSTD 233: Genes and Society
  - WOMENSTD 239: Gender, Sexuality, and Health in America
  - WOMENSTD 242: Gender Violence in a Global Context
  - WOMENSTD 291: Introduction to the Psychology of Women and Gender
  - WOMENSTD 296: Gender, Sex Differences, and Addiction: Girls Gone Wild
  - WOMENSTD 300: Men's Health
  - WOMENSTD 307: Critical Theory in Medicine and Healing
  - WOMENSTD 320: Gender and Mental Health
  - WOMENSTD 324: Childbirth and Culture
  - WOMENSTD 328: Women, Agency and Sexual Safety
  - WOMENSTD 342: Special Topics in Gender and Health
  - WOMENSTD 356: Health in America: Patterns, Experiences, Inequalities
  - WOMENSTD 365: Global Perspectives on Gender, Health, and Reproduction
  - WOMENSTD 394: Adolescent Sexuality
  - WOMENSTD 400: Women's Reproductive Health
  - WOMENSTD 402: Gender and Health Policy

- WOMENSTD 404: Gender Based Violence: From Theory to Action
- WOMENSTD 405: Pharma, Pills, & Policy
- WOMENSTD 407: Intersexualities
- WOMENSTD 410: Reproductive Justice: Legal and Ethical Issues
- WOMENSTD 412: Reproductive Health Policy in a Global Context
- WOMENSTD 421: Gender and Sport
- WOMENSTD 432: Advanced Topics in Gender and Health
- WOMENSTD 438: Gender, Health and Well-Being in Africa
- WOMENSTD 443: Pedagogy of Empowerment: Activism in Race, Gender, and Health.
- WOMENSTD 452: Sexuality and Science
- WOMENSTD 494: Adolescent Sexuality
- WOMENSTD 498: Gender and the Individual
- WOMENSTD 499: Psychology of Women

#### Upper-Level Seminars:

WOMENSTD 328, 331, 342, 345 (*section titled "Sexual Violence and the State"*), 350, 351, 365, 405, 407, 410, 412, 438, 443, 449/SOC 445, 494.

#### Courses with a transnational, global, historical perspective:

- WOMENSTD 233
- WOMENSTD 296
- WOMENSTD 307
- WOMENSTD 324
- WOMENSTD 328
- WOMENSTD 365
- WOMENSTD 412
- WOMENSTD 438
- AMCULT 233
- AMCULT 296

## Gender, Race, and Nation (Minor)

This minor is designed to introduce students to a range of feminist scholarship on the intersection of gender with race and ethnicity and with nation. Courses examine race and ethnicity in contexts that are local, transnational, or both. They analyze the ways in which gender, race, and nation are constituted with and against each other, and how these constructions operate in discourses, institutions, politics, societies, and individual lives past and present. The minor can be tailored toward an international or domestic emphasis, but topics are likely to include the changing boundaries of race, gender, and nation; differential relations among nations; histories of imperialism, colonialism, and globalization; and postcolonial resistance and theory.

*Effective Winter 2014*

#### Advising

Students wishing to pursue a minor in Women's Studies must develop a specific plan for its completion in consultation with the department's designated advisor. Advising appointments are made online. To make an advising appointment, please see the bottom left-hand corner of the Women's Studies website main page: [/lsa.umich.edu/women/undergraduates/advising](https://lsa.umich.edu/women/undergraduates/advising).

#### Prerequisites

None.

#### Requirements

##### Minimum Credits: 15

Five courses totaling at least 15 credits, to be chosen from the following categories as stated:

1. **Foundational Course.** One course chosen from:
  - WOMENSTD 240: Introduction to Women's Studies
  - WOMENSTD 250: Gender, Race, & Nation
2. **Feminist Theory.** One course chosen from:
  - WOMENSTD 330: Feminist Thought
  - WOMENSTD 422: Feminist Political Theory
  - WOMENSTD 455: Feminist Theory in Anthropology
3. **Electives.** Three electives (9 credits) that focus on women in specific racial and ethnic groups (At least two courses must be upper-level courses, with at least one at the 400-level), chosen from:
  - WOMENSTD 212: Global HIV/AIDS Epidemic
  - WOMENSTD 220: Perspectives in Women's Health
  - WOMENSTD 233: Genes and Society
  - WOMENSTD 235: Harems to Terrorists: Representing the Modern Middle East in Hollywood Cinema
  - WOMENSTD 239: Gender, Sexuality, and Health in America
  - WOMENSTD 242: Gender Violence in a Global Context
  - WOMENSTD 243: Latinas in the U.S.
  - WOMENSTD 270: Gender and the Law
  - WOMENSTD 291: Introduction to Psychology of Women and Gender
  - WOMENSTD 293: 20th-Century Writing by Women of Color
  - WOMENSTD 297 / PSYCH 297: Promoting Equity and Inclusion in the University and the Workplace (F17)
  - WOMENSTD 301: Writing Japanese Women
  - WOMENSTD 302: Sex and Gender in Japan
  - WOMENSTD 304: Gender and Immigration
  - WOMENSTD 306: Women of Color and Feminism

- WOMENSTD 307: Critical Theory in Medicine and Healing
  - WOMENSTD 318: Women, Politics, and Society in India
  - WOMENSTD 321: Women's Lives in 20th-Century China
  - WOMENSTD 323: Black Feminist Thought and Practice
  - WOMENSTD 324: Anthropology of Childbirth
  - WOMENSTD 328: Women, Agency, and Sexual Safety
  - WOMENSTD 329: Native American Feminism
  - WOMENSTD 332: Gender and Power in Southeast Asia
  - WOMENSTD 335: Gender and Globalization
  - WOMENSTD 336: Black Women in America
  - WOMENSTD 337: Black Women in the U.S.
  - WOMENSTD 343: Special Topics in Gender and Ethnicity in the U.S.
  - WOMENSTD 345: Special Topics in Gender in a Global Context
  - WOMENSTD 352: Gender, Sexuality, and Power in Premodern China
  - WOMENSTD 354: Race and Identity in Music
  - WOMENSTD 356: Health in America: Patterns, Experiences, Inequalities
  - WOMENSTD 357: Feminist Practices in a Global Context
  - WOMENSTD 360: History of the Family in the U.S.
  - WOMENSTD 363: Asian Pacific American Women
  - WOMENSTD 365: Global Perspectives on Gender, Health, and Reproduction
  - WOMENSTD 366: Sex and Sexuality in U.S. Popular Culture
  - WOMENSTD 368: Women and War in the Middle East
  - WOMENSTD 378: Violence Against Women of Color
  - WOMENSTD 381: Intersections: Fictions and Feminisms of the African Diaspora
  - WOMENSTD 390: Homophobia in the Black World
  - WOMENSTD 425: Feminist Practice in Oral History
  - WOMENSTD 427: African Women
  - WOMENSTD 433: Advanced Topics in Gender, Race and Ethnicity in the U.S.
  - WOMENSTD 435: Advanced Topics in Gender in a Global Context
  - WOMENSTD 438: Gender, Health, and Well-Being in Africa
  - WOMENSTD 443: Pedagogy of Empowerment: Activism in Race, Gender and Health
  - WOMENSTD 445 / AAS 458: Fighting with Human Rights
  - WOMENSTD 448: Gender and the Family in China
  - WOMENSTD 471: Gender and Sexuality in Pre-Modern Islam
  - WOMENSTD 492: Women and Islam
  - WOMENSTD 496: Gender and Representation in the Modern Middle East.
- Students may also include:
- WOMENSTD 240 or 250 (when not taken as a foundation course)
- other special topics WOMENSTD courses on specific racial and ethnic groups approved by the Women's Studies department.

## ***Lesbian Gay Bisexual Transgender Queer Sexuality Studies (Minor)***

This minor is designed to introduce students to the field of lesbian, gay, bisexual, transgender, queer, and sexuality studies. Required and elective courses provide students with the opportunity to explore how various practices, institutions and beliefs intersect with sexualities and sexed bodies, in a range of cultures, geographies, and histories. Students will have the opportunity to rely upon courses, representing an interdisciplinary array of scholarship, in pursuing the study of sexuality and sexual identities.

*Effective Fall 2016*

### **Advising**

Students wishing to pursue a minor in Women's Studies must develop a specific plan for its completion in consultation with the department's designated advisor.

**Advising** appointments are made online. To make an advising appointment, please see the bottom-left-hand corner of the Women's Studies website main page: [www.lsa.umich.edu/women](http://www.lsa.umich.edu/women).

### **Prerequisites**

None.

### **Requirements**

#### **Minimum Credits: 15**

Five courses totaling at least 15 credits, to be chosen from the following categories as stated:

1. **Foundational Course:** WOMENSTD 245 (Introduction to Lesbian, Gay, Bisexual and Transgender Studies) *or* WOMENSTD 295 (Sexuality in Western Culture).
2. **Electives:** Four electives (12 credits) that focus on LGBT issues. At least two courses must be at the 300 level or above, with at least one at the 400 level.

- WOMENSTD 239: Gender, Sexuality, and Health in America
- WOMENSTD 245: (when not taken as the foundational course)
- WOMENSTD 295: (when not taken as the foundational course)
- WOMENSTD 308: Law and the Politics of Sexuality
- WOMENSTD 327: History of Sexuality
- WOMENSTD 341: Special Topics in LGBTQ Studies
- WOMENSTD 348: Sociology of Sexuality
- WOMENSTD 352: Gender, Sexuality, and Power in Premodern China
- WOMENSTD 366: Sex and Sexuality in U.S. Popular Culture
- WOMENSTD 390: Homophobia in the Black World
- WOMENSTD 394: Sex, Sexuality and Public Policy
- WOMENSTD 407: Intersexualities
- WOMENSTD 411: Rednecks, Queers, and Country Music: Identity and Social Status in Popular Culture
- WOMENSTD 428: Sex Panics in the U.S. and UK
- WOMENSTD 429: Sexual Identities and the Media
- WOMENSTD 431: Advanced Topics in LGBTQ Studies
- WOMENSTD 446: Sex in the City: Urban Geography and Sexual Locations
- WOMENSTD 449 / SOC 445: Diagnosis, Sex & Society
- WOMENSTD 450: Popular Music, Gender, and Sexuality
- WOMENSTD 452: Sexuality and Science
- WOMENSTD 465: Sociological Analysis of Deviance
- WOMENSTD 470: Gender and Sexuality in India
- WOMENSTD 471: Gender and Sexuality in Pre-Modern Islam
- WOMENSTD 494: Adolescent Sexuality

Other courses with over half their content devoted to LGBTQ issues may be approved for the minor by the Women's Studies Undergraduate Committee, and these will be listed on a special section of the [Women's Studies web page](#).

## Women's Studies (Major)

### Goals of the Major:

1. To provide majors with an understanding of the interdisciplinary scholarship on women, gender, and sexuality, and to train them in interdisciplinary methods.
2. To offer theoretical and practical approaches to feminist thinking across the disciplines.

3. To encourage comparative thinking about coursework that explores the multicultural and global nature of feminist scholarship.
4. To train majors to think analytically by teaching them to read and write critically.
5. To provide supporting skills and context for the study of women through the cognate requirement.
6. To encourage intellectual and academic breadth through the cognate requirement.

### Areas of the Women's Studies major:

LGBTQ (Lesbian, Gay, Bisexual, Transgender, and Queer) and Sexuality Studies offers an interdisciplinary approach to sexuality that includes topics such as religious beliefs, legal codes, medical constructions, and social movements, and recognizes them as historically variable and culturally specific. With the contributions of empirical research, feminist scholarship, and queer theory, courses in this area acquaint students with history of sexuality and understanding the formation of sexual identities and sexuality.

*Gender, Race, and Ethnicity in the U.S.* examines the intersection of gender, race, and ethnicity in order to consider differences among women and men, as well as the impact of multiple categories of identity on experience and on the formation and contestation of gender itself. Interracial and interethnic relations, the mutual influence of social movements, and racialized genders are also explored. Although the U.S. is the primary focus, consideration of various diasporas encourages analysis of the links between communities across national borders.

*Gender, Culture and Representation* explores ways in which ideas and meanings about women and gender are produced culturally and historically. It positions students as readers, viewers, and interpreters of cultures and cultural artifacts, especially in the domains of literature, philosophy, the visual and performing arts, mass media (including film), and their histories. Courses might explore a particular historical topic from a feminist perspective. Others might introduce students to feminist analyses of past and/or contemporary cultural forms and encourage them to consider processes of viewing, writing, and producing knowledge.

*Gender in the Global Context* offers a comparative cross-cultural perspective on the construction and meaning of gender, race, class, and sexuality. It examines current forces of globalization and empire, the histories of imperialism and colonialism, and postcolonial resistance and theory. Courses decenter the U.S. while placing it in a geopolitical context, including global and transnational feminisms.

*Effective Fall 2016*

### Exclusions:

*Gender and Health majors may not major in Women's Studies.*

### Advising

[Advising](#) appointments are made online. To make an advising appointment, please see the bottom left hand corner of the Women's Studies website main page: [www.lsa.umich.edu/women](http://www.lsa.umich.edu/women).

### Grade Policies

All courses in the Women's Studies major must be completed with a C- or above, including the prereq, WOMENSTD 240: Introduction to Women's Studies.

### Prerequisites

WOMENSTD 240, completed with a minimum grade of C- or above.

### Requirements

#### Minimum Credits: 33

33 credits (at least 25 must be at the 300-level or above) distributed as follows:

1. **Courses in Women's Studies:** Majors must complete areas A through E below.
  1. **Feminist Theory:** WOMENSTD 330: Feminist Thought.
  2. **Thematic Areas.** One course from each of the following four areas (only one course may be double-counted to meet these four thematic area course requirements):
    1. Lesbian, Gay, Bisexual, Transgender, Queer and Sexuality Studies
    2. Gender, Race, and Ethnicity in the U.S.
    3. Gender in a Global Context
    4. Gender, Culture, and Representation
  3. **Practice Course.** One course chosen from:
    1. WOMENSTD 350: Nonprofit Management, Community Engagement, and Feminist Practice
    2. WOMENSTD 351: Leading Feminism
    3. WOMENSTD 404/HS 404: Gender Based Violence: From Theory to Action
    4. WOMENSTD 425: Feminist Practice of Oral History.
    5. SOC 389: Gender and Sexuality section
  4. **Senior Seminar:** WOMENSTD 440: Senior Capstone.
  5. **Electives:** Additional WOMENSTD credits to bring the total major credits up to 27 (excluding prerequisites and cognates).
2. **Cognates:** Two upper-level courses (for a total of six credits), neither in WOMENSTD nor cross-listed, are required. In order to ensure that the interdisciplinary Women's Studies major is complemented by training in a single discipline, these courses will normally be in the same department. Cognate courses should not be courses on women but should provide supporting skills or contexts for the study of women.

### Constraints

A maximum of six Women's Studies independent study credits may be taken, excluding credits for the practicum.

At least 25 of the 33 required credits must be at the 300-level or above.

### Residency

At least 14 credits of Women's Studies courses must be taken in residence— including WOMENSTD 440 Senior Capstone and not including cognates.

In-residence: Courses elected on the Ann Arbor campus or at off-campus sites directed by Ann Arbor faculty. This includes STDABRD, Camp Davis, Biological Station, Michigan-in-Washington.

### Honors

The Women's Studies Honors Program provides an opportunity for majors to complete a comprehensive, original independent project under the guidance of a faculty mentor as the culmination to their undergraduate studies. Students should choose topics on which they have already done some academic study. Those interested in pursuing Honors should begin to consider it in their sophomore year and discuss their interests with a department advisor. Students learn methodology in WOMENSTD 389 (the Junior Honors Seminar) during the winter term of their junior year. The thesis is researched and written in the second term of the student's junior year and in their senior year. The Director of Undergraduate Studies (DUS) serves as the Honors Plan Advisor in Women's Studies. Honors applications are due December 1 of the student's junior year.

For more information, please

see: [www.lsa.umich.edu/women/undergraduate/honorsprogram](http://www.lsa.umich.edu/women/undergraduate/honorsprogram)

**Eligibility.** Women's Studies majors who have maintained an overall GPA of at least 3.4 and a 3.5 GPA in Women's Studies (including the pre-requisite) may apply for an honors major. Applicants must have completed or plan to complete WOMENSTD 240 (Introduction to Women's Studies) and WOMENSTD 330 (Feminist Thought) by the end of their junior year and applicants must demonstrate both the interest and capacity to carry out the comprehensive independent work required to complete an Honors thesis.



# LSA Course Catalog

*This document is an unofficial representation of the information available on the LSA Undergraduate Course Catalog.*

*For official and updated information, please view the LSA Course Catalog:  
[https://webapps.lsa.umich.edu/CrsMaint/Public/CB\\_PublicBulletin.aspx?crselevel=ug](https://webapps.lsa.umich.edu/CrsMaint/Public/CB_PublicBulletin.aspx?crselevel=ug)*

## Courses in LSA Afroamerican and African Studies

### Afroamerican & African Studies (AAS)

#### AAS 103. First Year Social Science Seminar

Enrollment restricted to first-year students, including those with sophomore standing. (3). (SS). May not be repeated for credit. (Cross-Area Courses). May not be included in a major.

#### AAS 104. First Year Humanities Seminar

Enrollment restricted to first-year students, including those with sophomore standing. (3). (HU). May not be repeated for credit. (Cross-Area Courses). May not be included in a major.

#### AAS 111. Introduction to Africa and Its Diaspora

(4). (HU). (R&E). May not be repeated for credit. May not be included in a DAAS major. F.

#### AAS 115. Elementary Swahili

(4). May not be repeated for credit. Students with credit for AAS 115 may only elect AAS 117 for 4 credits.

#### AAS 116. Elementary Swahili II: Language and Culture

AAS 115. (4). May not be repeated for credit. No credit granted to those who have completed or are enrolled in AAS 117.

#### AAS 117. Intensive Elementary Swahili

(8). May not be repeated for credit. No credit granted to those who have completed or are enrolled in AAS 116; 4 credits granted to those who have completed AAS 115.

#### AAS 125. Elementary African Languages I

(4). May not be repeated for credit. May not repeat the same language at the same level.

#### AAS 200. Introduction to African Studies

(3). (SS). May not be repeated for credit.

#### AAS 201. Introduction to Afro-American Studies

(3). (SS). May not be repeated for credit.

#### AAS 202. Introduction to Afro-Caribbean Studies

(3). (HU). May not be repeated for credit.

#### AAS 203. Issues in Afro-American Development

AAS 111. (3). (SS). May not be repeated for credit. (African-American Studies). Sp.

#### AAS 206. Issues in African Studies

AAS 111. (3). May not be repeated for credit. (African Studies).

#### AAS 208 / HISTART 208. Introduction to African Art

(4). (HU). (R&E). May not be repeated for credit.

#### AAS 211. Dynamics of the Black Diaspora

(3). (HU). May not be repeated for credit.

#### AAS 215. Intermediate Swahili I

AAS 116 or 117. (4). May not be repeated for credit.

#### AAS 216. Intermediate Swahili II

AAS 215. (4). (Lang Req). May not be repeated for credit.

#### AAS 224 / HISTART 224. African Visual Cultures: Akan/Kongo/Yoruba

(3). May not be repeated for credit.

#### AAS 230 / HISTORY 274. Survey of Afro-American History I

AAS 111. (3). (SS). May not be repeated for credit. (African-American Studies).

#### AAS 231 / HISTORY 275. Survey of Afro-American History, II

AAS 111. (3). (SS). May not be repeated for credit. (African-American Studies).

#### AAS 236 / AMCULT 226 / HISTORY 226 / LACS 226 / LATINOAM 226. The Latin Tinge: Latin Music in Social Context in Latin America and the U.S.

(4; 3 in the half-term). (HU). (R&E). May not be repeated for credit.

#### AAS 245 / HISTORY 245 / ISLAM 245. Islam in Africa

Students will receive no credit if previously taken as HISTORY 357, Topic 3 "Islam in Africa". (Prerequisites enforced at registration.) (3 - 4; 3 in the half-term). (HU). May not be repeated for credit.

#### AAS 246 / HISTORY 246. Africa to 1850

(4; 3 in the half-term). (SS). May not be repeated for credit.

#### AAS 247 / HISTORY 247. Modern Africa

(4; 3 in the half-term). (SS). (R&E). May not be repeated for credit.

#### AAS 248. Crime, Race, and the Law

(3). May not be repeated for credit.

#### AAS 254. The History and Evolution of Hip Hop Culture

(3). (HU). May not be repeated for credit.

#### AAS 260. The Political Economy of African Development

(3). (SS). May not be repeated for credit.

#### AAS 262 / HISTORY 272. The Modern Civil Rights Movement

(4; 3 in the half-term). (R&E). May not be repeated for credit.

#### AAS 263. Race, Housing, and Employment

(3). May not be repeated for credit.

**AAS 267 / AMCULT 267 / HISTORY 267. Religion in the Making of African America**

(3). *May not be repeated for credit.*

**AAS 268. Community Collaborations: Race, Social Justice, and Engaged Learning**

(3). (SS). *May not be repeated for credit.*

**AAS 271 / ENGLISH 274. Introduction to Afro-American Literature**

AAS 111 (CAAS 111). (3; 2 in the half-term). (HU). (R&E). *May not be repeated for credit.*

**AAS 273 / AMCULT 273. The Southern Novel in Historical Context**

(3). (R&E). *May not be repeated for credit.*

**AAS 290. Selected Topics in Black World Studies**

(2). *May not be repeated for credit.*

**AAS 303 / SOC 303. Race and Ethnic Relations**

*An introductory course in Sociology or AAS 201. (4; 3 in the half-term). (SS). (R&E). May not be repeated for credit. (African-American Studies).*

**AAS 304 / WOMENSTD 304. Gender and Immigration: Identity, Race, and Place**

(3). (SS). *May not be repeated for credit.*

**AAS 315. Advanced Swahili I**

AAS 216. (4). *May not be repeated for credit.*

**AAS 316. Advanced Swahili II**

AAS 315. (4). *May not be repeated for credit.*

**AAS 322 / ENVIRON 335. Introduction to Environment Politics: Race, Class, and Gender**

(4; 3 in the half-term). (SS). (R&E). *May not be repeated for credit. (Cross-Area Courses).*

**AAS 323 / HISTORY 388 / WOMENSTD 323. Black Feminist Thought and Practice**

(3). *May not be repeated for credit.*

**AAS 324. Dealing with the Past and Doing Justice in Africa: South Africa, Rwanda, Sierra Leone**

AAS 111 and AAS 200, *prior coursework in comparative politics, international relations, or permission of instructor. (3). May not be repeated for credit.*

**AAS 328 / WOMENSTD 328. Women, Agency and Sexual Safety**

*One course in WOMENSTD or AAS. (3). May not be repeated for credit.*

**AAS 330 / RCSSCI 330. Urban and Community Studies I**

(4). *May not be repeated for credit.*

**AAS 331 / PSYCH 316. The World of the Black Child**

*One course in Psychology or Afro-American and African Studies. (3). May not be repeated for credit. (Cross-Area Courses).*

**AAS 333. Perspectives in Afro-American History**

AAS 201. (4; 3 in the half-term). *May not be repeated for credit. (African-American Studies). Sp.*

**AAS 336 / HISTORY 336 / WOMENSTD 336. Black Women in the United States, Part I: From the American Revolution through the Women's Era**

AAS 201 (CAAS 201). (3). *May not be repeated for credit. No credit granted to those who completed AAS 337 prior to Winter 2012.*

**AAS 340 / AMCULT 340. A History of Blacks in American Film**

AAS 201. (3). *May not be repeated for credit. (African-American Studies). Sp.*

**AAS 345 / ASIAN 345 / RCSSCI 346. Genocide and Trauma in Southeast Asia, Africa, and Europe in the Twentieth Century**

(3). (HU). *May not be repeated for credit.*

**AAS 346 / ENGLISH 389 / HISTORY 362. Literature in African History**

(3). (HU). (R&E). *May not be repeated for credit.*

**AAS 347 / RCSSCI 343 / SOC 335. Urban Inequality in America**

*One course in introductory sociology. (4; 3 in the half-term). (SS). May not be repeated for credit. No credit granted to students who are enrolled in or have completed SOC 435 or SOC 535.*

**AAS 354 / HONORS 354 / RCHUMS 354 / WOMENSTD 354. Race and Identity in Music**

(3). (HU). (R&E). *May not be repeated for credit.*

**AAS 355 / ANTHCUL 355 / HISTORY 355 / ISLAM 335. Health and Illness in African Worlds**

(4; 3 in the half-term). (R&E). *May not be repeated for credit. (African Studies).*

**AAS 356 / POLSCI 355. Democracy and Development in Africa**

(4). *May not be repeated for credit.*

**AAS 358. Topics in Black World Studies**

(3). *May be repeated for a maximum of 6 credits.*

**AAS 359 / POLSCI 359. African Politics**

AAS 200. (3 - 4; 3 in the half-term). *May not be repeated for credit.*

**AAS 360. Afro-American Art**

AAS 201. (3). (HU). *May not be repeated for credit. (African-American Studies). F.*

**AAS 362 / HISTART 362. Expressive Cultures of the Black Atlantic: Vision and Time**

*HISTART 208/AAS 208 and upperclass standing. (3). May not be repeated for credit.*

**AAS 365 / WOMENSTD 365. Global Perspectives on Gender, Health, and Reproduction**

*One course in either Women's Studies or AAS. (3). (SS). May not be repeated for credit.*

**AAS 366. Music of Africa**

*(3). May not be repeated for credit.*

**AAS 381 / ENGLISH 380 / WOMENSTD 381. Intersections: Fictions and Feminisms of the African Diaspora**

*AAS 111 (CAAS 111). (3). May not be repeated for credit.*

**AAS 384 / AMCULT 406 / ENGLISH 384. Caribbean Literature**

*AAS 202. (3). May be repeated for a maximum of 6 credits.*

**AAS 385 / ENGLISH 385. African Literature**

*AAS 200. (3). (HU). May be elected twice for credit. (African Studies).*

**AAS 394. Junior Seminar in Professional Writing**

*Upperclass standing. (4). May be repeated for a maximum of 8 credits. Cross-Area Course.*

**AAS 395 / GERMAN 396 / HISTORY 396. Germany and the Black Diaspora**

*(3). (HU). (R&E). May not be repeated for credit.*

**AAS 400 / MUSICOL 457. The Musics of African Americans**

*AAS 201 recommended. Musical background preferred. Undergraduates only. (3; 2 in the half-term). May not be repeated for credit. (African-American Studies).*

**AAS 407 / HISTART 406. Looking at African Things**

*HISTART 208/AAS 208. (3). May not be repeated for credit. Rackham credit requires additional work.*

**AAS 408. African Economies: Social and Political Settings**

*AAS 200. (4; 3 in the half-term). May not be repeated for credit. (African Studies).*

**AAS 409 / ANTHRCUL 408. Maternal/Child Health and Environmental Pollution in Africa**

*Junior or above. (4). May not be repeated for credit. Rackham credit requires additional work.*

**AAS 410. Supervised Reading and Research**

*Consent of instructor required. (1 - 6). (INDEPENDENT). May not be repeated for credit. Continuing Course. Y grade can be reported at end of the first-term to indicate work in progress. At the end of the second term (AAS 410 or 510), the final grade is posted for both term's elections. (Cross-Area Courses). F, W, Sp, Su.*

**AAS 418 / POLSCI 324. Black Americans and the Political System**

*One course in Political Science and AAS 201. (3). May not be repeated for credit. (African-American Studies).*

**AAS 420 / ANTHRCUL 347. Race and Ethnicity**

*Junior standing. (3; 2 in the half-term). May not be repeated for credit.*

**AAS 421 / HISTORY 421 / LACS 421 / RELIGION 421. Religions of the African Diaspora**

*(3). May not be repeated for credit. Rackham credit requires additional work.*

**AAS 422 / ANTHRCUL 411. African Cultures**

*AAS 200 (CAAS 200); and junior standing. (3; 2 in the half-term). May not be repeated for credit. (African Studies).*

**AAS 426. Urban Redevelopment and Social Justice**

*(3). May not be repeated for credit. (Cross-Area Courses). F.*

**AAS 432. Violent Environments: Oil, Development and the Discourse of Power**

*AAS 200 (CAAS 200). (3). May not be repeated for credit.*

**AAS 436. Witchcraft and Spiritual Insecurity in Africa**

*AAS 111 (CAAS 111) or AAS 200 (CAAS 200). (3). May not be repeated for credit. (African Studies).*

**AAS 439 / LING 449. Creole Languages and Caribbean Identities**

*AAS 202. (3; 2 in the half-term). May not be repeated for credit. (Afro-Caribbean Studies).*

**AAS 440 / SAC 440. African Cinema**

*AAS 200. (3). May not be repeated for credit. (African Studies).*

**AAS 443 / WOMENSTD 443. Pedagogy of Empowerment: Activism in Race, Gender, and Health**

*AAS 201, WOMENSTD 240 or 220, AMCULT 240, NURS 220. (3). May not be repeated for credit.*

**AAS 444 / ANTHRCUL 414. Introduction to Caribbean Societies and Cultures, I**

*Junior standing or above. (3). May not be repeated for credit. (Afro-Caribbean Studies). F.*

**AAS 450. Law, Race, and the Historical Process, I**

*(3). May not be repeated for credit. (African-American Studies). F.*

**AAS 451. Law, Race, and the Historical Process, II**

*AAS 450. (3). May not be repeated for credit. (African-American Studies). W.*

**AAS 453. Culture, Class, and Conflict in Southern Africa**

*AAS 200. (3). May not be repeated for credit. African Studies.*

**AAS 454 / ANTHRCUL 453. African-American Culture**

One introductory course in the social sciences. AAS 201 recommended. (3). May not be repeated for credit. (African-American Studies).

**AAS 458. Issues in Black World Studies**

(3). May be repeated for a maximum of 6 credits.

**AAS 459 / ANTHRCUL 451. African-American Religion**

One introductory course in the social sciences. AAS 201 recommended. (3). May not be repeated for credit. (African-American Studies).

**AAS 460. Africa and Post-war Development Theory and Policy**

AAS 200 & ECON 102. (3). May not be repeated for credit. Rackham credit requires additional work.

**AAS 462. Globalization and African Health**

AAS 200 recommended. (3). May not be repeated for credit. Rackham credit requires additional work.

**AAS 468. Practicum in Field Studies in the Diaspora**

AAS 111 or permission of instructor. May require concurrent registration in AAS 469, *Issues in the Diaspora*. (3). (EXPERIENTIAL). May be repeated for a maximum of 6 credits. Rackham credit requires additional work.

**AAS 471. Higher Education and African-American Social Development**

Upperclass standing. (3). May not be repeated for credit.

**AAS 473 / HISTORY 473 / LACS 483. Brazil: History and Culture**

(3). May not be repeated for credit. Rackham credit requires additional work.

**AAS 480 / HISTART 408. Visual Culture as History in Africa**

AAS 200 (CAAS 200). (3). May not be repeated for credit.

**AAS 487. Communication Media in the Black World: Electronic Media**

AAS 201. (3). (R&E). May not be repeated for credit. (African-American Studies).

**AAS 490. Special Topics in Black World Studies**

(1 - 2). May be repeated for a maximum of 6 credits.

**AAS 495. Senior Seminar**

Upperclass standing. (4). May be repeated for a maximum of 8 credits. (Cross-Area Courses). (Capstone Course).

**AAS 558. Seminar in Black World Studies**

Graduate standing or permission of instructor. (3). May be repeated for a maximum of 6 credits.

**American Culture (AMCULT)****AMCULT 100. What is an American?**

(4; 3 in the half-term). (SS). (R&E). May not be repeated for credit.

**AMCULT 102. First Year Seminar in American Studies**

Enrollment restricted to first-year students, including those with sophomore standing. (3). (SS). May not be repeated for credit.

**AMCULT 103. First Year Seminar in American Studies**

Enrollment restricted to first-year students, including those with sophomore standing. (3). (HU). May not be repeated for credit.

**AMCULT 201. American Values**

(4; 3 in the half-term). (HU). (R&E). May not be repeated for credit.

**AMCULT 202. Digital Culture**

(4; 3 in the half-term). (ID). May not be repeated for credit.

**AMCULT 204. Themes in American Culture**

(3 - 4; 3 in the half-term). (HU). May be elected twice for credit. May be elected more than once in the same term.

**AMCULT 205. American Cultures**

(3 - 4; 3 in the half-term). (HU). May not be repeated for credit.

**AMCULT 208. Post World War II American Sub-Cultural Movements: Beatniks, Hippies, and Punks**

(3). (SS). May not be repeated for credit.

**AMCULT 209. History of American Popular Music**

(3). (HU). May not be repeated for credit.

**AMCULT 211. Introduction to Ethnic Studies**

(3). (HU). May be repeated for a maximum of 6 credits.

**AMCULT 213 / LATINOAM 213. Introduction to Latina/o Studies**

(3 - 4). (ID). (R&E). May not be repeated for credit.

**AMCULT 214 / ASIANPAM 214. Introduction to Asian/Pacific American Studies**

(3). (ID). (R&E). May not be repeated for credit.

**AMCULT 215 / ARABAM 215 / NEAREAST 275. Introduction to Arab-American Studies**

(4). (HU). (R&E). May not be repeated for credit.

**AMCULT 217 / NATIVEAM 217. Introduction to Native American Studies**

(4; 3 in the half-term). (HU). May not be repeated for credit.

**AMCULT 219. Survey of American Folklore**

(3). (HU). May not be repeated for credit.

**Courses in LSA American Culture**

**AMCULT 221 / SOC 221. Social Inequality**

(4; 3 in the half-term). (SS). May not be repeated for credit.

**AMCULT 222 / NATIVEAM 222. Elementary Ojibwe I**

(3; 2 in the half-term). May not be repeated for credit. May not be included in a minor in Native American Studies. F.

**AMCULT 223 / NATIVEAM 223. Elementary Ojibwe II**

NATIVEAM 222 or AMCULT 222; with a minimum grade of C- or better. (Prerequisites enforced at registration.) (3; 2 in the half-term). May not be repeated for credit. May not be included in an academic minor in Native American Studies. W.

**AMCULT 224 / LATINOAM 224 / SPANISH 278. Spanish for Heritage Language Learners**

Basic knowledge of Spanish language. (4). May not be repeated for credit. No credit granted to students who have completed SPANISH 290. This course does not satisfy the language requirement.

**AMCULT 225. Space, Story and the American Self**

(4; 3 in the half-term). (HU). (R&E). May not be repeated for credit.

**AMCULT 226 / AAS 236 / HISTORY 226 / LACS 226 / LATINOAM 226.****The Latin Tinge: Latin Music in Social Context in Latin America and the U.S.**

(4; 3 in the half-term). (HU). (R&E). May not be repeated for credit.

**AMCULT 228. American Musical Soundscapes**

Not available to students who have completed AMCULT 204, Topic: Musical Soundscapes. (Prerequisites enforced at registration.) (4; 3 in the half-term). (HU). May not be repeated for credit.

**AMCULT 230 / HISTART 230. Art and Life in 19th-Century America**

(3). (HU). May not be repeated for credit.

**AMCULT 231. Visual & Material Culture Studies**

(3 - 4; 3 in the half-term). (HU). May not be repeated for credit.

**AMCULT 232 / ENGLISH 282 / NATIVEAM 232. Native American Literature**

(4; 3 in the half-term). (HU). May not be repeated for credit.

**AMCULT 233 / WOMENSTD 233. Genes and Society: Comparative and International Perspectives**

(3). (ID). May not be repeated for credit.

**AMCULT 234 / ASIAN 232. Zen Masters, Dharma Bums, and Drag Queens: Buddhism in America**

(3). (HU). May not be repeated for credit.

**AMCULT 235 / ARABAM 235 / WOMENSTD 235. From Harems to Terrorists: Representing the Middle East in Hollywood Cinema**

(4). (HU). (R&E). May not be repeated for credit.

**AMCULT 237 / HISTART 237 / RCHUMS 237. On the Margins of the Art World - Self-Taught Artists in the U.S.**

(3). (ID). May not be repeated for credit.

**AMCULT 239 / WOMENSTD 239. Gender, Sexuality, and Health in America**

(3). (ID). May not be repeated for credit.

**AMCULT 240 / WOMENSTD 240. Introduction to Women's Studies**

(4; 3 in the half-term). (HU). (R&E). May not be repeated for credit.

**AMCULT 241. Health, Biology, and Society: What is Cancer?**

(3 - 4; 1 - 4 in the half-term). (ID). (BS). May not be repeated for credit. No credit granted to those who have completed or are enrolled in BIOLOGY 241.

**AMCULT 242 / WOMENSTD 242. Gender Violence in a Global Context**

(4). (SS). (R&E). May not be repeated for credit.

**AMCULT 243 / LATINOAM 243 / WOMENSTD 243. Latina Women in the U.S.**

(3). (HU). May not be repeated for credit.

**AMCULT 244 / HISTART 244. Art of the American Century (1893-1968)**

(3). (HU). May not be repeated for credit.

**AMCULT 245 / JUDAIC 245. Jews and Other Others**

Not available to students who have completed AMCULT 211 or JUDAIC 218 when taught with the topic "Jews and Other Others" (Topic #1). (Prerequisites enforced at registration.) (3 - 4). (HU). May not be repeated for credit.

**AMCULT 263 / HISTORY 262. The American South**

(4; 3 in the half-term). (SS). (R&E). May not be repeated for credit.

**AMCULT 267 / AAS 267 / HISTORY 267. Religion in the Making of African America**

(3). May not be repeated for credit.

**AMCULT 270 / HISTORY 270. Religion in America**

(4). (HU). May not be repeated for credit.

**AMCULT 273 / AAS 273. The Southern Novel in Historical Context**

(3). (R&E). May not be repeated for credit.

**AMCULT 275. Practices of American Culture**

(3). (ID). May not be repeated for credit.

**AMCULT 276 / ASIAN 276. India as Imaginary Homeland: an Introduction to Cultural Constructions of National Identity**

(3). (HU). (R&E). May not be repeated for credit.

**AMCULT 284 / HISTORY 284. Sickness and Health in Society: 1492 to**

**the Present**

*First-year students must obtain permission of the instructor. (3 - 4; 3 in the half-term). (SS). May not be repeated for credit.*

**AMCULT 293 / WOMENSTD 293. 20th Century Writing by Women of Color**

*(3). (HU). May not be repeated for credit.*

**AMCULT 295 / WOMENSTD 295. Sexuality in Western Culture**

*(3). (SS). May not be repeated for credit.*

**AMCULT 301. Topics in American Culture**

*(1 - 4). May be elected twice for credit. May be elected more than once in the same term.*

**AMCULT 303. Race and Mixed Race**

*(4). (HU). (R&E). May not be repeated for credit.*

**AMCULT 304 / LATINOAM 304 / SOC 304. American Immigration**

*One introductory course in Sociology or American Culture. (4). (SS). (R&E). May not be repeated for credit.*

**AMCULT 306 / PSYCH 317. Community Research**

*One of the following: PSYCH 111, 112, 114, or 115. (4). May not be repeated for credit.*

**AMCULT 308 / HISTORY 315. American Constitutional History**

*Students should have a good general knowledge of United States History, such as that acquired in HISTORY 260 and 261, or equivalent rigorous high school history courses. (4; 3 in the half-term). (SS). May not be repeated for credit.*

**AMCULT 310. Topics in Ethnic Studies**

*(3). (SS). May be repeated for a maximum of 6 credits. May be elected more than once in the same term.*

**AMCULT 311. American Culture and the Humanities**

*(1 - 4). (HU). May be elected twice for credit. May be elected more than once in the same term.*

**AMCULT 313 / ANTHRCUL 314 / LATINOAM 313. Cuba and its Diaspora**

*(3). (R&E). May not be repeated for credit. F.*

**AMCULT 314 / ASIANPAM 314 / HISTORY 378. History of Asian Americans in the U.S.**

*(4; 3 in the half-term). (SS). May not be repeated for credit.*

**AMCULT 315 / HISTORY 377 / LATINOAM 315. History of Latina/os in the U.S.**

*(3 - 4). (R&E). May not be repeated for credit. No credit granted to those who have completed or are enrolled in AMCULT 312 or HISTORY 312.*

**AMCULT 316 / ANTHRCUL 315 / NATIVEAM 316. Native American Peoples of North America**

*(4). (SS). (R&E). May not be repeated for credit.*

**AMCULT 318 / GREEKMOD 318. Greek-American Culture**

*(3). (R&E). May not be repeated for credit.*

**AMCULT 319 / PSYCH 319. Empowering Families and Communities**

*One of the following: PSYCH 111, 112, 114, or 115. (4). May not be repeated for credit.*

**AMCULT 320 / JUDAIC 320 / NEAREAST 380. The Jewish Graphic Novel**

*(3). (HU). May not be repeated for credit.*

**AMCULT 321 / PSYCH 325. Practicum in the Multicultural Community**

*One of the following: PSYCH 111, 112, 114, or 115. (1 - 4). (EXPERIENTIAL). May not be repeated for credit. A total of six credits of PSYCH letter-graded experiential courses may be counted for the Psychology major. PSYCH 325 must be taken for at least three credits to count as an experiential lab in the Psychology major. No more than 6 credits of directed readings/internships may be counted toward the American Culture major.*

**AMCULT 322 / NATIVEAM 322. Intermediate Ojibwe I**

*NATIVEAM 223 or AMCULT 223; with a minimum grade of C- or better. (Prerequisites enforced at registration.) (3; 2 in the half-term). May not be repeated for credit. F.*

**AMCULT 323 / NATIVEAM 323. Intermediate Ojibwe II**

*NATIVEAM 322 or AMCULT 322; with a minimum grade of C- or better. (Prerequisites enforced at registration.) (3; 2 in the half-term). (Lang Req). May not be repeated for credit. W.*

**AMCULT 324 / ASIANPAM 324 / ENGLISH 381. Asian American Literature**

*(3). (HU). May not be repeated for credit.*

**AMCULT 325 / ASIANPAM 325 / ENGLISH 388. Pacific Literary and Cultural Studies**

*(3). (HU). May not be repeated for credit.*

**AMCULT 326 / COMM 326. American Magazines**

*(4; 3 in the half-term). (HU). May not be repeated for credit. No credit granted to students who have completed AMCULT 250.*

**AMCULT 327 / ENGLISH 387 / LATINOAM 327. Latina/Latino Literature of the U.S.**

*(3). (HU). May not be repeated for credit. Taught in English.*

**AMCULT 328 / ENGLISH 382 / NATIVEAM 328. Studies in Native American Literature**

*(3). (HU). May not be repeated for credit.*

**AMCULT 331 / HISTORY 356 / WOMENSTD 356. Health in America:**

**Patterns, Experiences, and Inequalities**

(3 - 4). (ID). (R&E). May not be repeated for credit.

**AMCULT 333 / NATIVEAM 333. Green Indigeneity**

Not available to students who have completed AMCULT 311 (Topic #11) or ENGLISH 317 (Topic #33) when taught with the topic "Green Indigeneity". (Prerequisites enforced at registration.) (3 - 4). (HU). May not be repeated for credit.

**AMCULT 334 / COMM 334 / SAC 334. Race, Gender, Sexuality and U.S. Culture in Video Games**

(4; 3 in the half-term). May not be repeated for credit.

**AMCULT 335. Arts and Culture in American Life**

(4; 3 in the half-term). (HU). May not be repeated for credit. F.

**AMCULT 337. A Survey of American Blues Music**

(3). (HU). May not be repeated for credit.

**AMCULT 340 / AAS 340. A History of Blacks in American Film**

AAS 201. (3). May not be repeated for credit.

**AMCULT 341 / HISTORY 343. Rise of the Corporation**

(3). (SS). May not be repeated for credit.

**AMCULT 342 / HISTORY 368 / WOMENSTD 360. History of the Family in the U.S.**

(4; 3 in the half-term). (ID). May not be repeated for credit.

**AMCULT 345. American Politics and Society**

(3). (SS). May not be repeated for credit.

**AMCULT 346 / GERMAN 346 / SAC 346. Media Matter: From Print to Screen Culture**

(3). (HU). May not be repeated for credit.

**AMCULT 348 / HISTORY 346. History of American Radicalism**

(4; 3 in the half-term). (SS). May not be repeated for credit.

**AMCULT 352 / ASIANPAM 352. Asian/Pacific Islander American Cultural Performance**

(4; 3 in the half-term). (HU). May not be repeated for credit.

**AMCULT 353 / ASIANPAM 353 / HISTORY 454. Asians in American Film and Television**

(4; 3 in the half-term). (ID). (R&E). May not be repeated for credit.

**AMCULT 354 / ENGLISH 312 / ENVIRON 354. Camp Davis: History and Literature of the Rockies**

Consent of department required. (3 in the half-term). (HU). May not be repeated for credit. Su at Camp Davis, Wyoming. May not be taken pass/fail.

**AMCULT 355. Topics in American Creative Expression**

(1 - 3). (CE). May be repeated for a maximum of 6 credits. May be elected more than once in the same term.

**AMCULT 358. Topics in Digital Studies**

(1 - 4). (ID). May be elected twice for credit. May be elected more than once in the same term.

**AMCULT 359 / ASIANPAM 359. South Asian Diaspora in America**

Not available to students who have completed AMCULT/ASIANPAM 311 when taught with the topic "South Asian Diaspora in America". (Prerequisites enforced at registration.) (3). (HU). May not be repeated for credit.

**AMCULT 360. Radical Digital Media**

Not available to students who have completed AMCULT 358 Topics in Digital Studies when taught with the topic "Radical Digital Media" (topic #1) or AMCULT 405 Topics in American Culture when taught with the topic "Radical Digital Media" (topic #31). (Prerequisites enforced at registration.) (3). (HU). May not be repeated for credit.

**AMCULT 361 / EDUC 395 / ELI 395 / LATINOAM 361 / LING 391 / RCSSCI 395. Principles and Practices of Teaching ESL in Migrant Communities**

(3). (EXPERIENTIAL). May be elected three times for credit.

**AMCULT 362 / EDUC 396 / ELI 396 / LATINOAM 362 / LING 396 / RCSSCI 396. Migrant Community Outreach and ESL Teaching Practicum**

ELI 395; completed with a minimum grade of C or better. (Prerequisites enforced at registration.) (2 - 3). (EXPERIENTIAL). May be elected three times for credit.

**AMCULT 363 / ASIANPAM 363 / WOMENSTD 363. Asian/Pacific Islander American Women**

(3). May not be repeated for credit.

**AMCULT 364. U-M in Incarcerated America**

Open to all undergraduates with second-year standing or above. (Prerequisites enforced at registration.) (3). (SS). May not be repeated for credit.

**AMCULT 365. AIDS and America**

Not available to students who have completed AMCULT 206 when taught with the topic "AIDS in America" (Topic #1). (Prerequisites enforced at registration.) (3). (SS). May not be repeated for credit.

**AMCULT 366 / HISTORY 353 / WOMENSTD 366. Sex and Sexuality in U.S. Popular Culture**

(3). (HU). May not be repeated for credit.

**AMCULT 367 / HISTORY 367 / NATIVEAM 367. American Indian History**

(4; 3 in the half-term). (SS). (R&E). May not be repeated for credit.

**AMCULT 369 / HISTORY 369. The History of U.S. Mass Culture From**



**Minstrelsy to Hip Hop**

(4; 3 in the half-term). (HU). May not be repeated for credit.

**AMCULT 370. Digital Bodies: Performance After the Internet**

Not available to students who have completed AMCULT 405 Topics in American Culture when taught with topic "Digital Bodies: Performance After the Internet" (topic #29). (Prerequisites enforced at registration.) (3). (HU). May not be repeated for credit.

**AMCULT 372 / ASIANPAM 372. Hula - Creative Practice**

Not available to students who have completed AMCULT 355 when taught with the topic "The Hula" (topic #1). (Prerequisites enforced at registration.) (3). (CE). May not be repeated for credit.

**AMCULT 373 / HISTORY 373. History of the U.S. West**

(4; 3 in the half-term). (HU). May not be repeated for credit.

**AMCULT 374 / HISTORY 374. The Politics and Culture of the "Sixties"**

(4; 3 in the half-term). (SS). (R&E). May not be repeated for credit.

**AMCULT 379. Privacy, Politics, and Power**

Not available to students who have completed AMCULT 301 when taught with the topic "Privacy, Politics and Power" (Topic #72). (Prerequisites enforced at registration.) (3). (HU). May not be repeated for credit.

**AMCULT 380 / LATINOAM 380 / SAC 380. Studies in Transnational Media**

Prior coursework in Screen Arts & Cultures, Communications (TV), or Latino Studies. Knowledge of Spanish is not required. (3). May not be repeated for credit. Taught in English.

**AMCULT 381 / LATINOAM 381 / SAC 381. Latinas/Latinos and the Media**

Consent of department required. (3). (HU). May not be repeated for credit.

**AMCULT 383. Junior Honors Reading and Thesis**

Consent of instructor required. Juniors only. (3; 2 in the half-term). (INDEPENDENT). May not be repeated for credit. F, W, Sp/Su, Sp, Su.

**AMCULT 384 / ARABAM 384. Islamophobia**

Not available to students who have completed AMCULT/ARABAM 311 when taught with the topic "Islamophobia" (Topic #27). (Prerequisites enforced at registration.) (3). (HU). May not be repeated for credit.

**AMCULT 385 / HISTORY 335 / LATINOAM 385. Immigration Law: Critical Approaches to Contemporary Issues**

(3 - 4; 3 in the half-term). (SS). May not be repeated for credit.

**AMCULT 387 / HISTORY 387 / JUDAIC 387. History of American Jews**

(4; 3 in the half-term). May not be repeated for credit.

**AMCULT 388. Field Study**

Consent of instructor required. Sophomore standing. (1 - 4).

(EXPERIENTIAL). May be repeated for a maximum of 8 credits. Offered mandatory credit/no credit.

**AMCULT 389. Reading Course in American Culture**

Consent of instructor required. (1 - 4). (INDEPENDENT). May not be repeated for credit. No more than 6 credits of directed readings/internships may be counted toward the American Culture major. F, W, Sp/Su, Sp, Su.

**AMCULT 398. Junior Honors Writing Workshop**

Consent of instructor required. Permission of a concentration advisor in American Culture. (1 - 3). May not be repeated for credit.

**AMCULT 399. Race in America**

(4; 3 in the half-term). (SS). (R&E). May not be repeated for credit.

**AMCULT 405. Topics in American Culture**

(1 - 4). May be elected twice for credit. May be elected more than once in the same term.

**AMCULT 406 / AAS 384 / ENGLISH 384. Caribbean Literature**

AAS 202. (3). May be repeated for a maximum of 6 credits.

**AMCULT 407. The History of American Folk Music: Culture, Politics, Music**

Consent of instructor required. (3). May not be repeated for credit.

**AMCULT 409 / MUSICOL 409. American Roots Music from Sacred Harp to Contemporary Blues**

(3). May not be repeated for credit.

**AMCULT 410 / SI 410. Ethics and Information Technology**

(4). May not be repeated for credit.

**AMCULT 411 / WOMENSTD 411. Rednecks, Queers, and Country Music**

One course in Women's Studies or American Culture. (3). May not be repeated for credit.

**AMCULT 412. Pre WWII American Blues: Roots, Context, Content**

Not available to students who have completed AMCULT 405 when taught with the topics "American Blues Music". (Prerequisites enforced at registration.) (3). May not be repeated for credit.

**AMCULT 420 / LATINOAM 420 / SPANISH 420. Latin American & Latino/a Film Studies**

Nine credits chosen from: SPANISH 279 and 399 or two RCLANG 324; and six credits chosen from SPANISH 279 and 399. (Prerequisites enforced at registration.) (3). May not be repeated for credit. Rackham credit requires additional work.

**AMCULT 425 / WOMENSTD 425. Feminist Practice of Oral History**

One course in WOMENSTD or AMCULT. (3). May not be repeated for credit. Rackham credit requires additional work.

**AMCULT 433 / HISTART 431. Made in Detroit: A History of Art and Culture in the Motor City**

Upperclass standing; prior coursework in Art History, U.S. History, American Culture, or Urban studies, and permission of instructor. (3). May not be repeated for credit.

**AMCULT 437 / JUDAIC 437. Yiddish Culture in America**

(3). (R&E). May not be repeated for credit. Rackham credit requires additional work.

**AMCULT 440 / HISTORY 440. American Thought and Culture Since 1940**

(3). May not be repeated for credit. Rackham credit requires additional work.

**AMCULT 461 / ANTHRCUL 461 / LING 461 / NATIVEAM 461. Language, Culture, and Society in Native North America**

(3). May not be repeated for credit.

**AMCULT 462 / HISTORY 461. The American Revolution**

(4; 3 in the half-term). May not be repeated for credit. Rackham credit requires additional work.

**AMCULT 489. Senior Essay**

Consent of instructor required. Senior concentrators and AMCULT 350. (3). (INDEPENDENT). May not be repeated for credit.

**AMCULT 493. Honors Readings and Thesis**

Consent of instructor required. Senior standing and a grade point average of at least 3.5 in Honors concentration. (1 - 3). May be repeated for a maximum of 6 credits. No more than 6 credits of directed readings/internships may be counted toward the American Culture major. Continuing Course. Y grade can be reported at end of the first-term to indicate work in progress. At the end of the second term of AMCULT 493, the final grade is posted for both term's elections. F, W, Sp/Su, Sp, Su.

**AMCULT 498. Capstone Seminar in American Culture**

(3 - 4; 3 in the half-term). May be elected twice for credit. May be elected more than once in the same term.

**AMCULT 519 / WOMENSTD 519. Queer Women in the 20th Century**

(3). May not be repeated for credit.

**Arab American Studies (ARABAM)****ARABAM 204. Themes in Arab American Studies**

(3 - 4; 3 in the half-term). (HU). May be elected twice for credit. May be elected more than once in the same term.

**ARABAM 215 / AMCULT 215 / NEAREAST 275. Introduction to Arab-American Studies**

(4). (HU). (R&E). May not be repeated for credit.

**ARABAM 235 / AMCULT 235 / WOMENSTD 235. From Harems to****Terrorists: Representing the Middle East in Hollywood Cinema**

(4). (HU). (R&E). May not be repeated for credit.

**ARABAM 301. Topics in Arab American Studies**

(1 - 4). May be elected twice for credit. May be elected more than once in the same term.

**ARABAM 311. Arab American Studies and the Humanities**

(1 - 4). (HU). May be elected twice for credit. May be elected more than once in the same term.

**ARABAM 384 / AMCULT 384. Islamophobia**

Not available to students who have completed AMCULT/ARABAM 311 when taught with the topic "Islamophobia" (Topic #27). (Prerequisites enforced at registration.) (3). (HU). May not be repeated for credit.

**ARABAM 388. Field Study**

Consent of instructor required. Sophomore standing. (1 - 4). (EXPERIENTIAL). (INDEPENDENT). May be repeated for a maximum of 8 credits. Offered mandatory credit/no credit.

**ARABAM 389. Reading Course in Arab American Studies**

Consent of instructor required. (1 - 4). (INDEPENDENT). May not be repeated for credit. No more than 6 credits of directed readings/internships may be counted toward the American Culture major.

**ARABAM 390. Internship in Arab and Muslim American Studies**

Consent of instructor required. (2 - 4; 1 - 4 in the half-term). (EXPERIENTIAL). May be repeated for a maximum of 6 credits. Not available to students who have completed six (6) credits in ARABAM 388 or AMCULT 390. Offered mandatory credit/no credit.

**ARABAM 405. Topics in Arab American Studies**

(1 - 4). May be elected twice for credit. May be elected more than once in the same term.

**ARABAM 498. Capstone Seminar in Arab American Studies**

(3 - 4; 3 in the half-term). May be elected twice for credit. May be elected more than once in the same term.

**Asian/Pacific Island Amer Std (ASIANPAM)****ASIANPAM 103. First Year Seminar in Asian/Pacific Islander American Studies**

Enrollment restricted to first-year students, including those with sophomore standing. (3). (HU). May not be repeated for credit.

**ASIANPAM 204. Themes in Asian/Pacific Islander American Studies**

(3 - 4; 3 in the half-term). (HU). May be elected twice for credit. May be elected more than once in the same term.

**ASIANPAM 214 / AMCULT 214. Introduction to Asian/Pacific American Studies**

(3). (ID). (R&E). May not be repeated for credit.

**ASIANPAM 301. Topics in Asian/Pacific Islander American Studies**

(1 - 4). May be elected twice for credit. May be elected more than once in the same term.

**ASIANPAM 310. Asian/Pacific Islander American Studies and the Social Sciences**

(3). (SS). May be repeated for a maximum of 6 credits. May be elected more than once in the same term.

**ASIANPAM 311. Asian/Pacific Islander American Studies and the Humanities**

(1 - 4). (HU). May be elected twice for credit. May be elected more than once in the same term.

**ASIANPAM 314 / AMCULT 314 / HISTORY 378. History of Asian Americans in the U.S.**

(4; 3 in the half-term). (SS). May not be repeated for credit.

**ASIANPAM 324 / AMCULT 324 / ENGLISH 381. Asian American Literature**

(3). (HU). May not be repeated for credit.

**ASIANPAM 325 / AMCULT 325 / ENGLISH 388. Pacific Literary and Cultural Studies**

(3). (HU). May not be repeated for credit.

**ASIANPAM 352 / AMCULT 352. Asian/Pacific Islander American Cultural Performance**

(4; 3 in the half-term). (HU). May not be repeated for credit.

**ASIANPAM 353 / AMCULT 353 / HISTORY 454. Asians in American Film and Television**

(4; 3 in the half-term). (ID). (R&E). May not be repeated for credit.

**ASIANPAM 359 / AMCULT 359. South Asian Diaspora in America**

Not available to students who have completed AMCULT/ASIANPAM 311 when taught with the topic "South Asian Diaspora in America". (Prerequisites enforced at registration.) (3). (HU). May not be repeated for credit.

**ASIANPAM 363 / AMCULT 363 / WOMENSTD 363. Asian/Pacific Islander American Women**

(3). May not be repeated for credit.

**ASIANPAM 372 / AMCULT 372. Hula - Creative Practice**

Not available to students who have completed AMCULT 355 when taught with the topic "The Hula" (topic #1). (Prerequisites enforced at registration.) (3). (CE). May not be repeated for credit.

**ASIANPAM 388. Field Study**

Consent of instructor required. Sophomore standing. (1 - 4). (EXPERIENTIAL). (INDEPENDENT). May be repeated for a maximum of 8 credits. Offered mandatory credit/no credit.

**ASIANPAM 389. Reading Course in Asian/Pacific Islander American****Studies**

Consent of instructor required. (1 - 4). (INDEPENDENT). May not be repeated for credit. No more than 6 credits of directed readings/internships may be counted toward the American Culture major.

**ASIANPAM 498. Capstone Seminar in Asian/Pacific Islander American Studies**

(3 - 4; 3 in the half-term). May be elected twice for credit. May be elected more than once in the same term.

**Latina/o American Studies (LATINOAM)****LATINOAM 102. First Year Seminar in Latina/o Studies**

Enrollment restricted to first-year students, including those with sophomore standing. (3). (SS). May not be repeated for credit.

**LATINOAM 103. First Year Seminar in Latina/o Studies**

Enrollment restricted to first-year students, including those with sophomore standing. (3). (HU). May not be repeated for credit.

**LATINOAM 204. Themes in Latina/o Studies**

(3 - 4; 3 in the half-term). (HU). May be elected twice for credit. May be elected more than once in the same term.

**LATINOAM 213 / AMCULT 213. Introduction to Latina/o Studies**

(3 - 4). (ID). (R&E). May not be repeated for credit.

**LATINOAM 224 / AMCULT 224 / SPANISH 278. Spanish for Heritage Language Learners**

Basic knowledge of Spanish language. (4). May not be repeated for credit. No credit granted to students who have completed SPANISH 290.

**LATINOAM 226 / AAS 236 / AMCULT 226 / HISTORY 226 / LACS 226. The Latin Tinge: Latin Music in Social Context in Latin America and the U.S.**

(4; 3 in the half-term). (HU). (R&E). May not be repeated for credit.

**LATINOAM 243 / AMCULT 243 / WOMENSTD 243. Latina Women in the U.S.**

(3). (HU). May not be repeated for credit.

**LATINOAM 301. Topics in Latina/o Studies**

(1 - 4). May be elected twice for credit. May be elected more than once in the same term.

**LATINOAM 304 / AMCULT 304 / SOC 304. American Immigration**

One introductory course in Sociology or American Culture. (4). (SS). (R&E). May not be repeated for credit.

**LATINOAM 310. Latina/o Studies and the Social Sciences**

(3). (SS). May be repeated for a maximum of 6 credits. May be elected more than once in the same term.

**LATINOAM 311. Latina/o Studies and the Humanities**

(1 - 4). (HU). May be elected twice for credit. May be elected more than once in the same term.

**LATINOAM 313 / AMCULT 313 / ANTHRCUL 314. Cuba and its Diaspora**

(3). (R&E). May not be repeated for credit.

**LATINOAM 315 / AMCULT 315 / HISTORY 377. History of Latina/os in the U.S.**

(3 - 4). (R&E). May not be repeated for credit. No credit granted to those who have completed or are enrolled in AMCULT 312 or HISTORY 312.

**LATINOAM 327 / AMCULT 327 / ENGLISH 387. Latina/Latino Literature of the U.S.**

(3). (HU). May not be repeated for credit.

**LATINOAM 361 / AMCULT 361 / EDUC 395 / ELI 395 / LING 391 / RCSSCI 395. Principles and Practices of Teaching ESL in Migrant Communities**

(3). (EXPERIENTIAL). May be elected three times for credit.

**LATINOAM 362 / AMCULT 362 / EDUC 396 / ELI 396 / LING 396 / RCSSCI 396. Migrant Community Outreach and ESL Teaching Practicum**

ELI 395; completed with a minimum grade of C or better. (Prerequisites enforced at registration.) (2 - 3). (EXPERIENTIAL). May be elected three times for credit.

**LATINOAM 380 / AMCULT 380 / SAC 380. Studies in Transnational Media**

Prior coursework in Screen Arts & Cultures, Communications (TV), or Latino Studies. Knowledge of Spanish is not required. (3). May not be repeated for credit.

**LATINOAM 381 / AMCULT 381 / SAC 381. Latinas/Latinos and the Media**

Consent of department required. (3). (HU). May not be repeated for credit.

**LATINOAM 385 / AMCULT 385 / HISTORY 335. Immigration Law: Critical Approaches to Contemporary Issues**

(3 - 4; 3 in the half-term). (SS). May not be repeated for credit.

**LATINOAM 388. Field Study**

Consent of instructor required. Sophomore standing. (1 - 4). (EXPERIENTIAL). (INDEPENDENT). May be repeated for a maximum of 8 credits. Offered mandatory credit/no credit.

**LATINOAM 389. Reading Course in Latina/o Studies**

Consent of instructor required. (1 - 4). (INDEPENDENT). May not be repeated for credit. No more than 6 credits of directed readings/internships may be counted toward the American Culture major.

**LATINOAM 405. Topics in Latina/o Studies**

(1 - 4). May be elected twice for credit. May be elected more than once in the same term.

**LATINOAM 420 / AMCULT 420 / SPANISH 420. Latin American & Latino/a Film Studies**

Nine credits chosen from: SPANISH 279 and 399 or two RCLANG 324; and six credits chosen from SPANISH 279 and 399. (Prerequisites enforced at registration.) (3). May not be repeated for credit. Rackham credit requires additional work.

**LATINOAM 440. Topics in Latina/o Studies - Spanish Language**

Nine credits chosen between SPANISH 279 and 399; or two RCLANG 324 and six credits chosen between SPANISH 279 and 399. (Prerequisites enforced at registration.) (3). May be repeated for a maximum of 6 credits. May be elected more than once in the same term. Taught in Spanish.

**LATINOAM 498. Capstone Seminar in Latina/o Studies**

(3 - 4; 3 in the half-term). May be elected twice for credit. May be elected more than once in the same term.

**Native American Studies (NATIVEAM)****NATIVEAM 217 / AMCULT 217. Introduction to Native American Studies**

(4; 3 in the half-term). (HU). May not be repeated for credit.

**NATIVEAM 222 / AMCULT 222. Elementary Ojibwe I**

(3; 2 in the half-term). May not be repeated for credit.

**NATIVEAM 223 / AMCULT 223. Elementary Ojibwe II**

NATIVEAM 222 or AMCULT 222; with a minimum grade of C- or better. (Prerequisites enforced at registration.) (3; 2 in the half-term). May not be repeated for credit.

**NATIVEAM 232 / AMCULT 232 / ENGLISH 282. Native American Literature**

(4; 3 in the half-term). (HU). May not be repeated for credit.

**NATIVEAM 301. Topics in Native American Studies**

(1 - 4). May be elected twice for credit. May be elected more than once in the same term.

**NATIVEAM 311. Native American Studies and the Humanities**

(1 - 4). (HU). May be elected twice for credit. May be elected more than once in the same term.

**NATIVEAM 316 / AMCULT 316 / ANTHRCUL 315. Native American Peoples of North America**

(4). (SS). (R&E). May not be repeated for credit.

**NATIVEAM 322 / AMCULT 322. Intermediate Ojibwe I**

NATIVEAM 223 or AMCULT 223; with a minimum grade of C- or better. (Prerequisites enforced at registration.) (3; 2 in the half-term). May

*not be repeated for credit.*

**NATIVEAM 323 / AMCULT 323. Intermediate Ojibwe II**

*NATIVEAM 322 or AMCULT 322; with a minimum grade of C- or better. (Prerequisites enforced at registration.) (3; 2 in the half-term). (Lang Req). May not be repeated for credit.*

**NATIVEAM 328 / AMCULT 328 / ENGLISH 382. Studies in Native American Literature**

*(3). (HU). May not be repeated for credit.*

**NATIVEAM 333 / AMCULT 333. Green Indigeneity**

*Not available to students who have completed AMCULT 311 (Topic #11) or ENGLISH 317 (Topic #33) when taught with the topic "Green Indigeneity". (Prerequisites enforced at registration.) (3 - 4). (HU). May not be repeated for credit.*

**NATIVEAM 367 / AMCULT 367 / HISTORY 367. American Indian History**

*(4; 3 in the half-term). (SS). (R&E). May not be repeated for credit.*

**NATIVEAM 388. Field Study**

*Consent of instructor required. Sophomore standing. (1 - 4). (EXPERIENTIAL). (INDEPENDENT). May be repeated for a maximum of 8 credits. Offered mandatory credit/no credit.*

**NATIVEAM 389. Reading Course in Native American Studies**

*Consent of instructor required. (1 - 4). (INDEPENDENT). May not be repeated for credit. No more than 6 credits of directed readings/internships may be counted toward the American Culture major.*

**NATIVEAM 461 / AMCULT 461 / ANTHRCUL 461 / LING 461.**

**Language, Culture, and Society in Native North America**  
*(3). May not be repeated for credit.*

**NATIVEAM 498. Capstone Seminar in Native American Studies**

*(3 - 4; 3 in the half-term). May be elected twice for credit. May be elected more than once in the same term.*

## Courses in LSA Anthropology

### Anthropology, Archaeological (ANTHRARC)

**ANTHRARC 180. First-Year Seminar in Anthropological Archaeology**

*Enrollment restricted to first-year students, including those with sophomore standing. (3). (SS). May not be repeated for credit.*

**ANTHRARC 282. Introduction to Prehistoric Archaeology**

*(4). (SS). May not be repeated for credit.*

**ANTHRARC 284. Aztec, Maya, and Inca Civilizations**

*(4). (SS). May not be repeated for credit.*

**ANTHRARC 285. Frauds and Fantastic Claims in Archaeology**

*(4). (SS). (R&E). May not be repeated for credit.*

**ANTHRARC 296. Topics in Archaeology**

*(3). (SS). May be repeated for a maximum of 12 credits. May be elected more than once in the same term.*

**ANTHRARC 381 / HISTART 382 / NEAREAST 338. Introduction to Egyptian Archaeology**

*(4; 3 in the half-term). (HU). May not be repeated for credit.*

**ANTHRARC 382. European Prehistory**

*(3; 2 in the half-term). (SS). May not be repeated for credit.*

**ANTHRARC 383. Prehistory: Africans**

*Sophomore standing. (3). (SS). May not be repeated for credit.*

**ANTHRARC 384 / NEAREAST 337. Ancient Mesopotamia: History and Culture**

*Sophomore standing. (4; 3 in the half-term). (ID). May not be repeated for credit.*

**ANTHRARC 385. The Archaeology of Early Humans**

*Sophomore standing. (3). (SS). May not be repeated for credit.*

**ANTHRARC 386. Early Civilizations**

*Sophomore standing. (4; 2 in the half-term). (SS). May not be repeated for credit.*

**ANTHRARC 392. Archaeology Underwater**

*(3). (SS). May not be repeated for credit.*

**ANTHRARC 394. Undergraduate Seminar in Archaeology**

*Consent of instructor required. ANTHRARC 282; and concentration in Anthropology. (3). May not be repeated for credit.*

**ANTHRARC 398. Honors in Anthropological Archaeology**

*Senior standing. (Prerequisites enforced at registration.) (3). (INDEPENDENT). May be repeated for a maximum of 6 credits.*

**ANTHRARC 399. Honors in Anthropological Archaeology**

*Senior standing and permission of instructor. (Prerequisites enforced at registration.) (3). May be repeated for a maximum of 6 credits. W.*

**ANTHRARC 480. Practica in Archaeological Research Techniques**

*Juniors and above or permission of instructor. (1 - 3). May be repeated for a maximum of 9 credits. May be elected more than once in the same term.*

**ANTHRARC 482. Topics in Anthropological Archaeology**

*Consent of instructor required. Junior standing. (3). May be elected twice for credit. May be elected more than once in the same term.*

**ANTHRARC 490. Prehistory of North America**

*Sophomore & above/permission of instructor. (3). May not be repeated for credit.*

**ANTHRARC 492. Prehistory of Oceania**

*ANTHRCUL 101, ANTHRARC 282, or junior standing. (3). May not be repeated for credit.*

**ANTHRARC 494. Introduction to Analytical Methods in Archaeology**

*Consent of instructor required. One course in statistics and junior standing. (3). May not be repeated for credit.*

**ANTHRARC 497. Museum Anthropology**

*Junior standing. (3). May not be repeated for credit.*

**ANTHRARC 499. Undergraduate Reading and Research in Anthropology**

*Consent of instructor required. (1 - 3). (INDEPENDENT). May be repeated for a maximum of 6 credits. May be elected more than once in the same term. May not be used toward the Anthropology academic minors.*

## Anthropology, Biological (ANTHRBIO)

**ANTHRBIO 166. First Year Seminar: Searching for Human Origins**

*Enrollment restricted to first-year students, including those with sophomore standing. (3). (NS). (BS). May not be repeated for credit.*

**ANTHRBIO 167 / ENVIRON 167. Evolution, Environment, and Global Health**

*(4). (NS). (BS). May not be repeated for credit.*

**ANTHRBIO 201. Introduction to Biological Anthropology**

*(4). (NS). (BS). May not be repeated for credit.*

**ANTHRBIO 297. Topics in Biological Anthropology**

*(3). (NS). (BS). May be repeated for a maximum of 12 credits.*

**ANTHRBIO 342 / ANTHRCUL 342. Nature/Culture Now!**

*ANTHRCUL 101. (4). (SS). (BS). May not be repeated for credit.*

**ANTHRBIO 362 / EEB 362 / ENVIRON 362. Primate Evolutionary Ecology**

*An introductory course on primates, ecology, or conservation biology is advised. No quantitative or statistical training is required. (4). (NS). (BS). May not be repeated for credit.*

**ANTHRBIO 363. Genes, Disease, and Culture**

*(4). (NS). (BS). May not be repeated for credit. F.*

**ANTHRBIO 364. Nutrition and Evolution**

*Sophomore standing. (4; 3 in the half-term). (NS). (BS). May not be repeated for credit.*

**ANTHRBIO 365. Human Evolution**

*Sophomore or Junior or Senior. (Prerequisites enforced at registration.) High school biology is assumed. (4). (NS). (BS). May not be repeated for credit.*

**ANTHRBIO 368 / PSYCH 338. Primate Social Behavior I**

*(4). (NS). (BS). May not be repeated for credit. F.*

**ANTHRBIO 369. Topics in Biological Anthropology**

*(3). (BS). May be repeated for a maximum of 9 credits. May be elected more than once in the same term.*

**ANTHRBIO 370. U.G. Reading and Research in Anthropology**

*Consent of instructor required. (1 - 3). (INDEPENDENT). May be repeated for a maximum of 6 credits.*

**ANTHRBIO 371. Techniques in Biological Anthropology**

*Consent of instructor required. (1 - 3). (BS). May be repeated for a maximum of 6 credits. May not be included in a concentration plan in Anthropology.*

**ANTHRBIO 373. Humans and Environmental Change**

*ANTHRBIO 201. (3). (NS). (BS). May not be repeated for credit.*

**ANTHRBIO 398. Honors in Biological and Evolutionary Anthropology**

*Seniors Only. Consent of instructor required. (Prerequisites enforced at registration.) (3). (BS). (INDEPENDENT). May be elected twice for credit. Continuing Course. Y grade can be reported at end of the first-term to indicate work in progress. At the end of the second term of ANTHRBIIO 399, the final grade is posted for both term's elections. F.*

**ANTHRBIO 399. Honors in Biological and Evolutionary Anthropology**

*Seniors Only. Consent of instructor required. (Prerequisites enforced at registration.) Senior standing. (3). (BS). (INDEPENDENT). May be repeated for a maximum of 6 credits. W.*

**ANTHRBIO 450. Molecular Anthropology**

*ANTHRBIO 161 and 363. (4). (BS). May not be repeated for credit.*

**ANTHRBIO 461 / ENVIRON 461. Primate Conservation Biology**

*An introductory course on primates, ecology, or conservation biology is advised. No quantitative or statistical training is required. (3). (BS). May not be repeated for credit.*

**ANTHRBIO 462. Human Growth and Development Across the Life Cycle**

*ANTHRBIO 201, 364, 365 or 465. (4). (BS). May not be repeated for credit.*

**ANTHRBIO 463 / ENVIRON 473. Statistical Modeling and Data Visualization in R**

*Basic knowledge of statistics (e.g., linear regression). Some prior experience with R is advisable, but not required. (4). (BS). (QR/1). May not be repeated for credit. Rackham credit requires additional work.*

**ANTHRBIO 465. Primate Functional Anatomy**

**ANTHRBIO 201, 365, 366 or 368.** (3). (BS). May not be repeated for credit. Rackham credit requires additional work.

**ANTHRBIO 466. Evolutionary Processes**

*ANTHRBIO 201.* (3). (BS). May not be repeated for credit.

**ANTHRBIO 467. Human Behavioral Ecology**

*A strong background in the natural sciences is assumed, including any two of the following courses: ANTHR BIO 161, 368; BIOLOGY 162, 171, 172; MCDB 404; EEB 494.* (4; 3 in the half-term). (BS). May not be repeated for credit.

**ANTHRBIO 469. Topics in Biological Anthropology**

*Consent of instructor required. (2 - 4; 2 - 3 in the half-term).* (BS). May be repeated for a maximum of 9 credits. May be elected more than once in the same term.

**ANTHRBIO 471. Research in Biological Anthropology**

*Consent of instructor required. (1 - 4).* (BS). May be repeated for a maximum of 9 credits. May be elected more than once in the same term.

**ANTHRBIO 472. Human Nature**

*Consent of instructor required. ANTHR BIO 467.* (2). (BS). May not be repeated for credit.

**ANTHRBIO 474. Hominid Origins**

*ANTHRBIO 365.* (4). (BS). May not be repeated for credit.

**ANTHRBIO 475. Evolution of Genus Homo**

*ANTHRBIO 351 or 365. (Prerequisites enforced at registration.)* (4). (BS). May not be repeated for credit.

**ANTHRBIO 476. Methods in Paleodiet Reconstruction**

*ANTHRBIO 201.* (3). (BS). May not be repeated for credit. Rackham credit requires additional work.

**ANTHRBIO 478. Primate Behavioral Ecology**

*Consent of instructor required. ANTHR BIO 368.* (3). (BS). May not be repeated for credit.

**Anthropology, Cultural (ANTHRCUL)**

**ANTHRCUL 101. Introduction to Anthropology**

*(4). (SS). (R&E). May not be repeated for credit. Does not count toward requirements for the Anthropology major. F, W, Sp.*

**ANTHRCUL 158. First Year Seminar in Anthropology**

*Enrollment restricted to first-year students, including those with sophomore standing. (3). (SS). May not be repeated for credit. May not be included in an Anthropology major.*

**ANTHRCUL 202. Ethnic Diversity in Japan**

*(4). (SS). (R&E). May not be repeated for credit.*

**ANTHRCUL 212 / NURS 225 / WOMENSTD 212. The Global HIV/AIDS Epidemic**

*(4). (SS). May not be repeated for credit.*

**ANTHRCUL 222. The Comparative Study of Cultures**

*(4; 2 in the half-term). (SS). May not be repeated for credit.*

**ANTHRCUL 226 / HISTORY 229. Introduction to Historical Anthropology**

*(3). (SS). May not be repeated for credit.*

**ANTHRCUL 246 / ISLAM 246 / RELIGION 246. Anthropology of Religion**

*(4). May not be repeated for credit.*

**ANTHRCUL 252. Law and Culture**

*(4). (SS). May not be repeated for credit.*

**ANTHRCUL 254. The Anthropology of Food**

*(4). (SS). May not be repeated for credit.*

**ANTHRCUL 256 / ENVIRON 256. Culture, Adaptation, and Environment**

*(3). (SS). May not be repeated for credit.*

**ANTHRCUL 258. Honors Seminar in Anthropology**

*LSA Honors. (Prerequisites enforced at registration.) Honors students with sophomore standing or above. (3). May not be repeated for credit.*

**ANTHRCUL 272 / LING 272. Language in Society**

*Primarily for first- and second-year students. (4). (SS). (R&E). May not be repeated for credit. Primarily for first- and second-year students. W.*

**ANTHRCUL 298. Topics in Sociocultural Anthropology**

*(3). (SS). May be repeated for a maximum of 12 credits. May be elected more than once in the same term.*

**ANTHRCUL 299. Topics in Linguistic Anthropology**

*(3). (SS). May be repeated for a maximum of 12 credits.*

**ANTHRCUL 302 / HISTART 302 / WOMENSTD 302. Sex and Gender in Japan**

*(3). (SS). May not be repeated for credit.*

**ANTHRCUL 305. Peoples and Cultures of the Himalaya**

*One course in cultural anthropology. (3). May not be repeated for credit.*

**ANTHRCUL 310. The State in Africa**

*(4). May not be repeated for credit.*

**ANTHRCUL 314 / AMCULT 313 / LATINOAM 313. Cuba and its Diaspora**

(3). (R&E). May not be repeated for credit. F.

**ANTHRCUL 315 / AMCULT 316 / NATIVEAM 316. Native American Peoples of North America**

(4). (SS). (R&E). May not be repeated for credit.

**ANTHRCUL 317 / HISTORY 228 / POLSCI 334 / REEES 397 / SLAVIC 397 / SOC 317. Communism and Capitalism in Eastern Europe**

(4). (SS). May not be repeated for credit. No credit granted to those who have completed or are enrolled in REEES 396 or SLAVIC 396 or POLSCI 396 or HISTORY 333 or SOC 393. May not be counted in a Slavic Department academic minor.

**ANTHRCUL 319. Latin American Society and Culture**

(3). (SS). (R&E). May not be repeated for credit.

**ANTHRCUL 320. Mexico: Culture and Society**

(3). May not be repeated for credit.

**ANTHRCUL 325 / WOMENSTD 324. Childbirth & Culture**

Sophomore standing. (4). (SS). May not be repeated for credit.

**ANTHRCUL 327 / RCSSCI 327 / WOMENSTD 307. Critical Theory in Medicine and Healing**

One course in ANTHRCUL or RCSSCI or WOMENSTD 240 or WOMENSTD with an SS designation. (4). (SS). May not be repeated for credit.

**ANTHRCUL 328. Globalizing Consumer Cultures**

(3). (SS). May not be repeated for credit.

**ANTHRCUL 330. Culture, Thought, and Meaning**

(4). (HU). May not be repeated for credit.

**ANTHRCUL 331. Kinship, Social Organization, and Society**

One course in Anthropology. (3). (SS). May not be repeated for credit.

**ANTHRCUL 332. Exchange, Commodities, and Money**

Sophomore standing. (4; 3 in the half-term). (SS). May not be repeated for credit.

**ANTHRCUL 333. Non-Western Legal Systems, I**

Sophomore standing. (3). (SS). May not be repeated for credit. F.

**ANTHRCUL 334. Anthropology and Development**

(3). (SS). May not be repeated for credit.

**ANTHRCUL 337. Death, Dying and the Afterlife**

(4). (SS). May not be repeated for credit.

**ANTHRCUL 341. The Globalization of Biomedicine**

(4). May not be repeated for credit.

**ANTHRCUL 342 / ANTHRBIO 342. Nature/Culture Now!**

ANTHRCUL 101. (4). (SS). (BS). May not be repeated for credit.

**ANTHRCUL 343 / POLSCI 342. Eastern Europe: Revolution, Reaction, and Reform**

POLSCI 140 or upperclass standing. (3). (SS). May not be repeated for credit.

**ANTHRCUL 344. Medical Anthropology**

ANTHRCUL 101 or 222; or sophomore and above. (Prerequisites enforced at registration.) (4). (SS). May not be repeated for credit.

**ANTHRCUL 346 / HISTORY 347. Latin America: The Colonial Period**

(4). (SS). May not be repeated for credit.

**ANTHRCUL 347 / AAS 420. Race and Ethnicity**

Junior standing. (3; 2 in the half-term). May not be repeated for credit.

**ANTHRCUL 349. Indigenous Political Movements**

(3). May not be repeated for credit.

**ANTHRCUL 352. Anthropology of the Body**

(3). (SS). May not be repeated for credit.

**ANTHRCUL 355 / AAS 355 / HISTORY 355 / ISLAM 335. Health and Illness in African Worlds**

(4; 3 in the half-term). (R&E). May not be repeated for credit.

**ANTHRCUL 356. Topics in Sociocultural Anthropology**

ANTHRCUL 101. (3). May be repeated for a maximum of 9 credits. May be elected more than once in the same term.

**ANTHRCUL 357. Seminar in Sociocultural Anthropology**

A course in cultural anthropology and junior standing. (3; 2 in the half-term). May not be repeated for credit.

**ANTHRCUL 370 / LING 370. Language and Discrimination: Language as Social Statement**

(3). (SS). (R&E). May not be repeated for credit.

**ANTHRCUL 374 / LING 374. Language and Culture**

Sophomore standing. (4). (HU). May not be repeated for credit.

**ANTHRCUL 402. Chinese Society and Cultures**

Junior standing. (3). May not be repeated for credit.

**ANTHRCUL 403. Japanese Society and Culture**

Anthropology majors and minors; students who have taken ANTHRCUL 202 and/or 302; any student interested in Japan. (3). May not be repeated for credit.

**ANTHRCUL 404. Peoples and Cultures of Southeast Asia**

ANTHRCUL 101 or 222. (3; 2 in the half-term). May not be repeated for



credit.

**ANTHRCUL 408 / AAS 409. Maternal/Child Health and Environmental Pollution in Africa**

Junior or above. (4). May not be repeated for credit. Rackham credit requires additional work.

**ANTHRCUL 409. Peoples and Cultures of the Near East and North Africa**

Junior standing. (3; 2 in the half-term). May not be repeated for credit.

**ANTHRCUL 411 / AAS 422. African Cultures**

AAS 200 (CAAS 200); and junior standing. (3; 2 in the half-term). May not be repeated for credit.

**ANTHRCUL 414 / AAS 444. Introduction to Caribbean Societies and Cultures, I**

Junior standing or above. (3). May not be repeated for credit.

**ANTHRCUL 415. Andean Civilization**

Consent of instructor required. Concentration in Anthropology. (3; 2 in the half-term). May not be repeated for credit. W.

**ANTHRCUL 417 / ASIAN 416. Possessing Culture: Mediumship and Ethnography in Southeast Asia**

Some coursework in cultural anthropology or Southeast Asian studies is useful, but not required. (3). May not be repeated for credit.

**ANTHRCUL 428 / RCSSCI 428 / WOMENSTD 428. Sex Panics in the US and UK since 1890**

One course in WOMENSTD or ANTHRCUL or RCSSCI, SOC, or HISTORY. (3). May not be repeated for credit.

**ANTHRCUL 439. Economic Anthropology and Development**

Junior standing or permission of instructor. (3; 2 in the half-term). May not be repeated for credit.

**ANTHRCUL 440. Environmental Anthropology**

Junior standing or above. (3). May not be repeated for credit.

**ANTHRCUL 446 / WOMENSTD 446. Sex and the City: Urban Geography and Sexual Locations**

At least one course in Anthropology, History, Women's Studies, Sociology, LGBTQ Studies, or Urban Studies/Urban Planning. (3). May not be repeated for credit.

**ANTHRCUL 447. Culture, Racism, and Human Nature**

(3). (R&E). May not be repeated for credit.

**ANTHRCUL 450. Anthropologies of Insurgency: Bandits, Rebels and Freedom Fighters**

(3). May not be repeated for credit.

**ANTHRCUL 451 / AAS 459. African-American Religion**

One introductory course in the social sciences. AAS 201 recommended. (3). May not be repeated for credit.

**ANTHRCUL 453 / AAS 454. African-American Culture**

One introductory course in the social sciences. AAS 201 recommended. (3). May not be repeated for credit.

**ANTHRCUL 458. Topics in Sociocultural and Linguistic Anthropology**

Consent of instructor required. Junior and above. (3). May be repeated for a maximum of 6 credits. May be elected more than once in the same term.

**ANTHRCUL 461 / AMCULT 461 / LING 461 / NATIVEAM 461.**

**Language, Culture, and Society in Native North America**  
(3). May not be repeated for credit.

**ANTHRCUL 471 / LING 471. Face-to-Face Interaction**

(3). May not be repeated for credit.

**ANTHRCUL 473 / LING 473. Ethnopoetics: Cross-Cultural Approaches to Verbal Art**

Two courses in anthropology, linguistics, or literature or permission of instructor. (3; 2 in the half-term). May not be repeated for credit.

**ANTHRCUL 474. Language, Ethnicity, and Nationalism**

Upperclass standing. (3). May not be repeated for credit.

**ANTHRCUL 497. Honors in Sociocultural and Linguistic Anthropology**

Seniors Only. (Prerequisites enforced at registration.) (3). May not be repeated for credit.

**ANTHRCUL 498. Honors in Sociocultural and Linguistic Anthropology**

Senior standing. (Prerequisites enforced at registration.) (3). May not be repeated for credit.

**ANTHRCUL 499. Undergraduate Reading and Research in Anthropology**

Consent of instructor required. (1 - 3). (INDEPENDENT). May be repeated for a maximum of 6 credits. May be elected more than once in the same term. A maximum of three credits of independent reading may be included in a concentration plan in Anthropology. F, W, Sp/Su, Sp, Su.

**ANTHRCUL 519 / GERMAN 517 / LING 517. Principles and Methods of Historical Linguistics**

Graduate standing, or permission of instructor. (3; 2 in the half-term). May not be repeated for credit.

**ANTHRCUL 572 / LING 542. Introduction to Sociolinguistics**

LING 411 or graduate standing. (3; 2 in the half-term). May not be repeated for credit.

## Courses in LSA Applied Physics

## Applied Physics (APPPHYS)

**APPPHYS 530 / EECS 530. Electromagnetic Theory I**  
*PHYSICS 438 or EECS 330. (3). (BS). May not be repeated for credit. F.*

**APPPHYS 540 / EECS 540. Applied Quantum Mechanics**  
*Permission of instructor. (3). (BS). May not be repeated for credit.*

**APPPHYS 541 / EECS 541. Applied Quantum Mechanics II**  
*APPPHYS 540. (3). (BS). May not be repeated for credit. W.*

**APPPHYS 672 / NERS 572. Plasma and Controlled Fusion II**  
*NERS 571. (3). (BS). May not be repeated for credit.*

## Courses in LSA Asian Languages & Cultures

### Asian Studies (ASIAN)

**ASIAN 200 / HISTORY 203. Introduction to Japanese Civilization**  
*(4). (HU). May not be repeated for credit.*

**ASIAN 201. Society and Culture in Contemporary Japan**  
*(4; 3 in the half-term). (SS). May not be repeated for credit.*

**ASIAN 204 / HISTORY 204. East Asia: Early Transformations**  
*(4; 3 in the half-term). (HU). (R&E). May not be repeated for credit.*

**ASIAN 205 / HISTORY 205. Modern East Asia**  
*(4; 3 in the half-term). (SS). (R&E). May not be repeated for credit.*

**ASIAN 206 / HISTORY 206. Indian Civilization**  
*(4; 3 in the half-term). (HU). May not be repeated for credit.*

**ASIAN 207 / HISTORY 207. Southeast Asian Civilization**  
*(4; 3 in the half-term). (SS). (R&E). May not be repeated for credit.*

**ASIAN 210 / HISTORY 219. The Philippines: Culture and History**  
*(3). (HU). (R&E). May not be repeated for credit.*

**ASIAN 220 / RELIGION 202. Introduction to the Study of Asian Religions**  
*(4). (HU). May not be repeated for credit.*

**ASIAN 222. Great Books of Japan**  
*A knowledge of Japanese is not required. (4). (HU). May not be repeated for credit. Taught in English. W (in odd years).*

**ASIAN 223 / RELIGION 223. Krishna Speaks: Bhagavad-Gita**  
*(3). (HU). May not be repeated for credit.*

**ASIAN 225 / RELIGION 225. Introduction to Hinduism: Origins and Development of Classical Hinduism**  
*(3). (HU). May not be repeated for credit.*

**ASIAN 230 / PHIL 230 / RELIGION 230. Introduction to Buddhism**  
*(4). (HU). May not be repeated for credit. May not be included in a concentration plan in Philosophy.*

**ASIAN 231 / RELIGION 231. Introduction to Tibetan Buddhism**  
*(4). (HU). May not be repeated for credit.*

**ASIAN 232 / AMCULT 234. Zen Masters, Dharma Bums, and Drag Queens: Buddhism in America**  
*(3). (HU). May not be repeated for credit.*

**ASIAN 234 / RELIGION 234. Buddhism and Death**  
*(3). (HU). May not be repeated for credit.*

**ASIAN 235. Introduction to Asian Studies**  
*(4). (HU). May not be repeated for credit. Taught in English.*

**ASIAN 241 / HISTORY 251. The Chinese Renaissance: Cultural Transformations in Eleventh-Century China**  
*(3). (ID). May not be repeated for credit.*

**ASIAN 243 / HISTART 243. Introduction to South Asian Art**  
*(3). (HU). May not be repeated for credit.*

**ASIAN 244. Seeds of Conflict: Intercultural Encounters in Japan from 745-1945**  
*(3). (HU). May not be repeated for credit.*

**ASIAN 248 / HISTORY 248 / RELIGION 248. Jesus Comes to Asia: Conversion and its Consequences in Asia**  
*(4). (HU). (R&E). May not be repeated for credit.*

**ASIAN 250. Undergraduate Seminar in Buddhist Studies**  
*No knowledge of an Asian language required. (3). (HU). May not be repeated for credit.*

**ASIAN 251. Undergraduate Seminar in Chinese Culture**  
*No knowledge of Chinese language is required. (3). (HU). May not be repeated for credit.*

**ASIAN 252. Undergraduate Seminar in Japanese Culture**  
*No knowledge of Japanese language is required. (3). (HU). May be elected twice for credit.*

**ASIAN 254. Undergraduate Seminar in Korean Culture**  
*No knowledge of Korean language is required. (3). (HU). May be repeated for a maximum of 6 credits.*

**ASIAN 255. Undergraduate Seminar in Asian Studies**  
*(3). (HU). May be elected twice for credit. May be elected more than*

once in the same term.

**ASIAN 257. Great Cities in Asia**

(4). (HU). May not be repeated for credit.

**ASIAN 258. Food and Drink of Asia**

(4). (HU). May not be repeated for credit.

**ASIAN 259 / HISTORY 255. The History of Modern South Asia**

(4; 3 in the half-term). (HU). (R&E). May not be repeated for credit.

**ASIAN 260 / HISTORY 252. Introduction to Chinese Civilization**

(4). (HU). (R&E). May not be repeated for credit. No assumed knowledge of Chinese history, culture, or language required.

**ASIAN 261. Introduction to Modern Chinese Culture**

No knowledge of Chinese required. (4). (HU). May not be repeated for credit. Taught in English.

**ASIAN 262. Twenty-five Ways that China Changed the World**

(4). (HU). May not be repeated for credit.

**ASIAN 263 / PHIL 263. Introduction to Chinese Philosophy**

(3). (HU). May not be repeated for credit.

**ASIAN 264. Looking at Traditional China Through its Most Famous Novel, The Story of the Stone**

(3). (HU). May not be repeated for credit.

**ASIAN 272 / RELIGION 272. Introduction to the Study of Korean Religions**

(3). (HU). May not be repeated for credit.

**ASIAN 273 / RCHUMS 273. North Korea: Real and Imagined**

(4). (ID). May not be repeated for credit.

**ASIAN 274 / HISTORY 249. Introduction to Korean Civilization**

(3). (HU). May not be repeated for credit.

**ASIAN 275 / HISTORY 288. India Calling: Culture and Society in Contemporary India**

(3). (HU). May not be repeated for credit.

**ASIAN 276 / AMCULT 276. India as Imaginary Homeland: an Introduction to Cultural Constructions of National Identity**

(3). (HU). (R&E). May not be repeated for credit.

**ASIAN 280. Topics in Asian Studies**

(3). (HU). May be elected twice for credit.

**ASIAN 283. The Martial Arts in East Asia: Sport, Nationalism, and the Invention of Tradition**

(4). (HU). May not be repeated for credit.

**ASIAN 285 / WOMENSTD 285. Love and Intimacy in Asia**

(3). (SS). May not be repeated for credit.

**ASIAN 292 / HISTART 292. Introduction to Japanese Art and Culture**

(4). (HU). May not be repeated for credit. No credit granted to those who have completed or are enrolled in HISTART 495.

**ASIAN 297. Mini Course in Asian Studies**

(1 - 3). (HU). May be elected three times for credit.

**ASIAN 300. Love and Death in Japanese Culture**

A knowledge of Japanese is not required. (3). (HU). May not be repeated for credit.

**ASIAN 302. Rewriting Identities in Modern Japan**

Knowledge of Japanese is not required. (3). (HU). May not be repeated for credit.

**ASIAN 303 / RELIGION 303. Religious Military Orders of the World**

(3). (HU). May not be repeated for credit.

**ASIAN 304 / HISTART 304. The Art of Yoga**

(3). (ID). May not be repeated for credit.

**ASIAN 305 / RELIGION 305. Religion and Violence in the Secular World**

(3). (HU). May not be repeated for credit.

**ASIAN 306 / RELIGION 306. What is Religion?**

(3). (HU). May not be repeated for credit.

**ASIAN 307 / HISTORY 308 / RELIGION 307. Eat, Pray, Love: Devotional Traditions in South Asia**

ASIAN 220 or 225. (3). (HU). May not be repeated for credit.

**ASIAN 308 / RCHUMS 308. Arts and Ideas of Modern South and Southeast Asia**

(3). (HU). (R&E). May not be repeated for credit.

**ASIAN 310 / WOMENSTD 311. Family in Japan**

(3). (SS). May not be repeated for credit.

**ASIAN 311. The Image of the Samurai**

(3). (HU). May not be repeated for credit.

**ASIAN 312. After Defeat: The Cultural History of Postwar Japan**

(3). (HU). May not be repeated for credit.

**ASIAN 314. Strange Ways: Literature of the Supernatural in Pre-modern Japan and China**

(3). (HU). May not be repeated for credit.

**ASIAN 316. Controversies in Contemporary Japan**

(3). (ID). May not be repeated for credit.

**ASIAN 318. Humanities Topics in Japan through Popular Culture**

At least one previous course on Japan. Students are not permitted to elect the same topic twice. (3). (HU). May be elected twice for credit. May be elected more than once in the same term.

**ASIAN 319 / RELIGION 319. Spirits of Contemporary Japan in Popular Culture**

ASIAN 200. (3). (HU). May not be repeated for credit.

**ASIAN 320. Japanese Performance Culture**

(3). (HU). May not be repeated for credit.

**ASIAN 321. Make it New: Modernism and Modern Life in Japan**

(3). (HU). May not be repeated for credit.

**ASIAN 322. War Tales: Histories of Violence in Medieval and Early Modern Japan and China**

(3). (HU). May not be repeated for credit.

**ASIAN 324 / HISTORY 325 / ISLAM 325 / MEMS 325 / NEAREAST 375 / RELIGION 325. The History of Islam in South Asia**

(4). (HU). (R&E). May not be repeated for credit.

**ASIAN 325 / RELIGION 323. Zen: History, Culture, and Critique**

(4). (HU). May not be repeated for credit.

**ASIAN 326. Introduction to Japanese Buddhism**

ASIAN 230. (3). May not be repeated for credit.

**ASIAN 329. Violence and Nonviolence in the Buddhist Traditions of Asia**

(3). (HU). May not be repeated for credit.

**ASIAN 331 / PHIL 331 / RELIGION 331. Introduction to Indian Philosophy**

One introductory course on Hinduism or Buddhism. (3). May not be repeated for credit.

**ASIAN 332. South Asian Identity: Writing Home from Away**

(3). (HU). May not be repeated for credit.

**ASIAN 334. Patterns of Prejudice: Race, Caste, and Religion in India and the United States**

(3). (ID). May not be repeated for credit.

**ASIAN 335 / HISTART 305. Himalayas: An Aesthetic Exploration**

Undergraduate and graduate students seeking to enroll for this course should have completed at least one course on the arts/languages/religions of South/Central/East Asia. (3). (HU). May

not be repeated for credit.

**ASIAN 336. Controversies in Contemporary India**

(3). (ID). May not be repeated for credit.

**ASIAN 337 / RELIGION 337. The Ramayana: Text and Context in an Indian Epic**

ASIAN 220 or ASIAN 206. (3). (HU). May not be repeated for credit.

**ASIAN 340 / HISTORY 340 / MENAS 340 / NEAREAST 340 / REEES**

**340. From Genghis Khan to the Taliban: Modern Central Asia**

(4; 3 - 4 in the half-term). (SS). (R&E). May not be repeated for credit.

**ASIAN 342 / WOMENSTD 332. Gender and Power in Southeast Asia**

(3). (HU). May not be repeated for credit.

**ASIAN 345 / AAS 345 / RCSSCI 346. Genocide and Trauma in Southeast Asia, Africa, and Europe in the Twentieth Century**

(3). (HU). May not be repeated for credit.

**ASIAN 346. Controversies in Contemporary Southeast Asia**

Previous knowledge of Southeast Asia is preferred. (3). (ID). May not be repeated for credit.

**ASIAN 350 / RELIGION 351. Gods, Ghosts, and Gangsters: Popular Religion in China**

(3). (HU). May not be repeated for credit.

**ASIAN 352 / WOMENSTD 352. Gender, Sexuality, and Power in Premodern China**

At least one course in Asian studies or Women's studies. (3). (HU). May not be repeated for credit.

**ASIAN 353. Globalizing China: From Ancient Wisdom to World Literature**

(3). (HU). May not be repeated for credit.

**ASIAN 354 / HISTORY 354. War, Rebellion and Revolution in China Through Two Centuries**

(4; 3 in the half-term). (SS). May not be repeated for credit.

**ASIAN 355. Revolution in Life: How Communism Changed China**

(3). (ID). May not be repeated for credit.

**ASIAN 356 / RCHUMS 374. Contemporary Chinese Performance Culture**

(3). (HU). May not be repeated for credit.

**ASIAN 357 / RCHUMS 358. Sensuous Pleasures: China's Forbidden Novel, Jin Ping Mei**

Sophomore standing or higher. (3). (HU). May not be repeated for credit.

**ASIAN 358. Art of War**

At least one Asian studies course. (3). (HU). May not be repeated for credit.

**ASIAN 359. Crime and Detection in Chinese Literature**

(3). (HU). May not be repeated for credit.

**ASIAN 362. The Travels of the Monkey King in China and Abroad**

(3). (HU). May not be repeated for credit.

**ASIAN 363. Chinese Drama and Theater**

(3). (HU). May not be repeated for credit.

**ASIAN 364. The Development of Chinese Fiction**

(3). (HU). May not be repeated for credit.

**ASIAN 365 / CLCIV 339 / HISTORY 339. Doctors in the Ancient World: China, Greece, and Rome**

(3). (HU). May not be repeated for credit.

**ASIAN 366. Controversies in Contemporary China**

ASIAN 260 or ASIAN 261. (3). (ID). May not be repeated for credit.

**ASIAN 367 / LING 367. Languages of Asia**

(3). (HU). May not be repeated for credit.

**ASIAN 368 / LING 368. How Different is Chinese?**

(3). (HU). May not be repeated for credit.

**ASIAN 370. Acupuncture: Historical and Contemporary Transformations**

(3). (ID). May not be repeated for credit.

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

(3). (HU). May not be repeated for credit.

**ASIAN 374. Korean War in Fiction and Film**

(3). (HU). May not be repeated for credit.

**ASIAN 375. Modern Korean Literature**

(3). (HU). May not be repeated for credit.

**ASIAN 376. Controversies in Contemporary Korea**

(3). (ID). May not be repeated for credit.

**ASIAN 377. K-Pop and Beyond: Popular Culture and Korean Society**

(3). (HU). May not be repeated for credit.

**ASIAN 380. Topics in Asian Studies**

(3). May be repeated for a maximum of 6 credits.

**ASIAN 381. Junior/Senior Research Seminar for Majors**

At least one course in Asian Studies (ASIAN) with a minimum grade of C-. (Prerequisites enforced at registration.) Asian Studies majors with junior or senior standing. (3). May not be repeated for credit. W.

**ASIAN 383. Wealth and Poverty in Korea: What it means to be rich (or not) in Korea**

At least one course in Asian Studies. (3). (HU). May not be repeated for credit.

**ASIAN 385. Love in Korean Literature and Cinema**

(3). (HU). May not be repeated for credit.

**ASIAN 387 / POLSCI 345 / RCSSCI 387. Hate in Asia: Cultures of Conflict and Reconciliation**

At least one course on the history, politics, or culture of Asia. (4). (ID). May not be repeated for credit.

**ASIAN 388. Utopia and Dystopia in Korea**

(3). (HU). May not be repeated for credit.

**ASIAN 389 / POLSCI 388. Asian Business Culture**

At least one Asian culture course on history, economics, politics, or popular culture. (4). (ID). May not be repeated for credit.

**ASIAN 393 / HISTART 385. Human Rights in China from Classical Times through the 18th Century: a Historical and Cultural Survey**

(3). (HU). May not be repeated for credit.

**ASIAN 395. Honors Thesis**

Consent of instructor required. Honors candidate in Asian Studies. (1 - 3). (INDEPENDENT). May be repeated for a maximum of 6 credits. Continuing Course. Y grade can be reported at end of the first-term to indicate work in progress. At the end of the second term, the final grade is posted for both term's elections.

**ASIAN 396. Asian Studies Internship Reflection Seminar**

(1). May be elected twice for credit.

**ASIAN 397. Mini Course in Asian Studies**

At least one course in Asian studies, especially on the topic addressed in the course. (1 - 3). (HU). May be elected three times for credit.

**ASIAN 400 / HISTORY 422 / RELIGION 400. Indian Religions and Western Thought**

Junior and above. (3). May not be repeated for credit. Rackham credit requires additional work.

**ASIAN 402. East Asian Performance Theory**

No prerequisites, but previous coursework in drama/performance or Asian culture would be helpful. (3). May be elected twice for credit. Rackham credit requires additional work.

**ASIAN 415 / HISTORY 415. Law and Society in Late Imperial and Modern China**

Junior or senior standing. No prior knowledge of China or Chinese

required. (3). May not be repeated for credit. Rackham credit requires additional work.

**ASIAN 416 / ANTHRCUL 417. Possessing Culture: Mediumship and Ethnography in Southeast Asia**

Some coursework in cultural anthropology or Southeast Asian studies is useful, but not required. (3). May not be repeated for credit.

**ASIAN 424 / HISTORY 424. Topics in Modern South Asian History**

(3 - 4; 3 in the half-term). May be elected three times for credit. May be elected more than once in the same term. Rackham credit requires additional work.

**ASIAN 428 / POLSCI 339. China's Evolution Under Communism**

Upperclass standing. (4; 3 in the half-term). May not be repeated for credit.

**ASIAN 435. Truth Claims in Indian Literature: Nonfiction Accounts of Gendered Discrimination**

At least one 300-level Asian Studies course or an equivalent literature/culture studies course in another department. (3). May not be repeated for credit.

**ASIAN 440. National Cinema of Asia**

(3). May be repeated for a maximum of 6 credits.

**ASIAN 450 / HISTORY 450. Japan to 1700: Origin Myth to Shogun Dynasty**

(3). May not be repeated for credit. Rackham credit requires additional work.

**ASIAN 451 / HISTORY 451. Japan's Modern Transformations**

(3). May not be repeated for credit.

**ASIAN 457. Translating Korean Poetry: Theory and Practice**

Third-year proficiency in Korean. (3). May not be repeated for credit.

**ASIAN 458 / SAC 458. Film Culture in Korea**

(3). May not be repeated for credit.

**ASIAN 459 / SOC 427. Sociology of Contemporary Korea: Development, Globalization, and Identity**

(3). May not be repeated for credit.

**ASIAN 464 / HISTORY 470 / RELIGION 464. From Mystic Saints to Holy Warriors: Islam in Southeast Asia**

(3). May not be repeated for credit. Rackham credit requires additional work.

**ASIAN 465 / HISTART 466. Sacred Image/Sacred Place in Japanese Art**

(3). May not be repeated for credit. Rackham credit requires additional work.

**ASIAN 470. Saga of the Three Kingdoms: From History to Videogames**

At least one course in Chinese history, literature, or culture; some background in literary criticism recommended. (3). May not be repeated for credit. Rackham credit requires additional work.

**ASIAN 475. Japanese Cinema**

A knowledge of JAPANESE is not required. (3). May not be repeated for credit.

**ASIAN 480. Topics in Asian Studies**

(3). May be elected four times for credit. May be elected more than once in the same term.

**ASIAN 483. The Lives of the Buddha, from India to Manga**

(3). May not be repeated for credit.

**ASIAN 484. Buddhist Tantra**

ASIAN 230. (3). May be elected twice for credit.

**ASIAN 485 / RELIGION 485. Religion in China**

Consent of instructor required. ASIAN 230 or permission of instructor. (3). May be repeated for a maximum of 6 credits.

**ASIAN 499. Independent Study-Directed Readings**

Consent of instructor required. (1 - 4). (INDEPENDENT). May be repeated for a maximum of 8 credits. F, W, Sp/Su, Sp, Su.

**ASIAN 527. History of Buddhist Studies**

Graduate standing or permission of instructor. (3). May not be repeated for credit.

**Asian Languages (ASIANLAN)**

**ASIANLAN 100. Accelerated Elementary Chinese**

Consent of instructor required. (3). May not be repeated for credit. No credit granted to those who have completed or are enrolled in ASIANLAN 101, 103, or 104.

**ASIANLAN 101. First Year Chinese I**

Native or near-native speakers of Chinese are not eligible for this course. (5). May not be repeated for credit. No credit granted to those who have completed or are enrolled in ASIANLAN 100, 102, 103, or 104.

**ASIANLAN 102. First Year Chinese II**

ASIANLAN 100 or 101 with a minimum grade of C- or by Assignment of ASIANLAN 102 by Placement Test. (Prerequisites enforced at registration.) (5). May not be repeated for credit. No credit granted to those who have completed or are enrolled in ASIANLAN 103 or 104.

**ASIANLAN 103. Intensive First Year Chinese**

Consent of instructor required. (10). May not be repeated for credit. No credit granted to those who have completed or are enrolled in ASIANLAN 100, 101, 102, or 104.

**ASIANLAN 104. First Year Chinese for Heritage Speakers**

*Consent of instructor required. (4). May not be repeated for credit. No credit granted to those who have completed or are enrolled in ASIANLAN 100, 101, 102, or 103.*

**ASIANLAN 108. Chinese Calligraphy**

*ASIANLAN 100 or 101. (Prerequisites enforced at registration.) (2). May not be repeated for credit.*

**ASIANLAN 111. First Year Filipino I**

*(4). May not be repeated for credit.*

**ASIANLAN 112. First Year Filipino II**

*ASIANLAN 111 or by assignment of ASIANLAN 112 by Placement Test. (Prerequisites enforced at registration.) (4). May not be repeated for credit. Filipino will serve as medium of instruction.*

**ASIANLAN 115. First Year Hindi I**

*(4). May not be repeated for credit. No credit granted to those who have completed or are enrolled in ASIANLAN 117. Students with prior knowledge of Hindi are encouraged to take ASIANLAN 118.*

**ASIANLAN 116. First Year Hindi II**

*ASIANLAN 115 or by assignment of ASIANLAN 116 by Placement Test. (Prerequisites enforced at registration.) (4). May not be repeated for credit. No credit granted to those who have completed or are enrolled in ASIANLAN 117.*

**ASIANLAN 121. First Year Indonesian I**

*(4). May not be repeated for credit.*

**ASIANLAN 122. First Year Indonesian II**

*ASIANLAN 121 or by assignment of ASIANLAN 122 by Placement Test. (Prerequisites enforced at registration.) (4). May not be repeated for credit.*

**ASIANLAN 123. First-Year Japanese through Anime and Manga**

*Placement of ASIANLAN 123 on an exam given by the Japanese Language Program. (Prerequisites enforced at registration.) (3). May not be repeated for credit. No credit granted to those who have completed or are enrolled in ASIANLAN 125, ASIANLAN 126, ASIANLAN 127.*

**ASIANLAN 124. First-Year Japanese through Anime and Manga II**

*ASIANLAN 123 or ASIANLAN 125. (Prerequisites enforced at registration.) (3). May not be repeated for credit. No credit granted to those who have completed or are enrolled in ASIANLAN 126 and ASIANLAN 127.*

**ASIANLAN 125. First Year Japanese I**

*(5). May not be repeated for credit. Native or near-native speakers of Japanese are not eligible for this course. No credit granted to those who have completed or are enrolled in ASIANLAN 123, 124, 127, 129 or RCLANG 196.*

**ASIANLAN 126. First Year Japanese II**

*(ASIANLAN 123 or 125) or by Assignment of ASIANLAN 126 by Placement Test. (Prerequisites enforced at registration.) (5). May not be repeated for credit. No credit granted to those who have completed or are enrolled in ASIANLAN 124, 127, or 129 or RCLANG 196.*

**ASIANLAN 127. Intensive First Year Japanese**

*Permission of instructor. (10). May not be repeated for credit. No credit granted to those who have completed or are enrolled in ASIANLAN 124, 125, 126, or 129 or RCLANG 196.*

**ASIANLAN 128. Mastering the Basics of Kanji: Learning Strategies and Orthography**

*One of ASIANLAN 126, 127, or 129 or RCLANG 196, completed with a minimum grade of C- or better. (Prerequisites enforced at registration.) (2). May not be repeated for credit.*

**ASIANLAN 129. Intensive Japanese I**

*Consent of instructor required. (10). May not be repeated for credit. No credit granted for students who have completed or are enrolled in ASIANLAN 125, 126 or 127.*

**ASIANLAN 135. First Year Korean I**

*(5). May not be repeated for credit. Native or near-native speakers of Korean are not eligible for this course. No credit granted to those who have completed or are enrolled in ASIANLAN 137.*

**ASIANLAN 136. First Year Korean II**

*ASIANLAN 135 or by assignment of ASIANLAN 136 by Placement Test. (Prerequisites enforced at registration.) (5). May not be repeated for credit. No credit granted to those who have completed or are enrolled in ASIANLAN 137.*

**ASIANLAN 138. Reading and Writing Korean I**

*Assignment of ASIANLAN 138 by Placement Test. Consent of instructor required. (Prerequisites enforced at registration.) (5). May not be repeated for credit. No credit granted to those who have completed or are enrolled in ASIANLAN 135, 136, or 137.*

**ASIANLAN 145. First Year Punjabi I**

*(4). May not be repeated for credit.*

**ASIANLAN 146. First Year Punjabi II**

*ASIANLAN 145 or by assignment of ASIANLAN 146 by Placement Test. (Prerequisites enforced at registration.) (4). May not be repeated for credit.*

**ASIANLAN 151. First Year Sanskrit I**

*(4). May not be repeated for credit.*

**ASIANLAN 152. First Year Sanskrit II**

*ASIANLAN 151. (Prerequisites enforced at registration.) (4). May not be repeated for credit. No credit granted to those who have completed or are enrolled in SSEA 369.*

**ASIANLAN 161. First Year Thai I**  
(4). May not be repeated for credit.

**ASIANLAN 162. First Year Thai II**  
ASIANLAN 161 or by assignment of ASIANLAN 162 by Placement Test. (Prerequisites enforced at registration.) (4). May not be repeated for credit.

**ASIANLAN 165. First Year Tibetan I**  
(4). May not be repeated for credit. Graduate students should elect BUDDHST 501.

**ASIANLAN 171. First Year Urdu I**  
(4). May not be repeated for credit.

**ASIANLAN 172. First Year Urdu II**  
ASIANLAN 171 or by assignment of ASIANLAN 172 by Placement Test. (Prerequisites enforced at registration.) (4). May not be repeated for credit.

**ASIANLAN 175. First Year Vietnamese I**  
(4). May not be repeated for credit.

**ASIANLAN 176. First Year Vietnamese II**  
ASIANLAN 175 or by assignment of ASIANLAN 176 by Placement Test. (Prerequisites enforced at registration.) (4). May not be repeated for credit.

**ASIANLAN 185. First Year Bengali I**  
(4). May not be repeated for credit.

**ASIANLAN 186. First Year Bengali II**  
ASIANLAN 185 or permission of instructor. (4). May not be repeated for credit.

**ASIANLAN 201. Second Year Chinese I**  
(ASIANLAN 102 or 103) or by Assignment of ASIANLAN 201 by Placement Test. (Prerequisites enforced at registration.) Native or near-native speakers of Chinese are not eligible for this course. (5). May not be repeated for credit. No credit granted to those who have completed or are enrolled in ASIANLAN 203. Students who are native or near-native Mandarin Chinese speakers are not eligible for this course.

**ASIANLAN 202. Second Year Chinese II**  
ASIANLAN 201 with a minimum grade of C- or by Assignment of ASIANLAN 202 by Placement Test. (Prerequisites enforced at registration.) (5). (Lang Req). May not be repeated for credit. No credit granted to those who have completed or are enrolled in ASIANLAN 203. Students who are native or near-native Mandarin Chinese speakers are not eligible for this course.

**ASIANLAN 203. Intensive Second Year Chinese**  
ASIANLAN 102 or 103. (Prerequisites enforced at registration.) (10). (Lang Req). May not be repeated for credit. No credit granted to those

who have completed or are enrolled in ASIANLAN 201 or 202.

**ASIANLAN 204. Second Year Chinese for Heritage Speakers**  
ASIANLAN 104. Those who have not taken ASIANLAN 104 must take the placement test in order to register for this course. (Prerequisites enforced at registration.) (4). (Lang Req). May not be repeated for credit. No credit granted to those who have completed or are enrolled in ASIANLAN 201, 202, or 203. conducted in Chinese.

**ASIANLAN 211. Second Year Filipino I**  
ASIANLAN 112 or by assignment of ASIANLAN 211 by Placement Test. (Prerequisites enforced at registration.) (4). May not be repeated for credit.

**ASIANLAN 212. Second Year Filipino II**  
ASIANLAN 211 or by assignment of ASIANLAN 212 by Placement Test. (Prerequisites enforced at registration.) (4). (Lang Req). May not be repeated for credit.

**ASIANLAN 215. Second Year Hindi I**  
ASIANLAN 116 or 117 or 118 or by assignment of ASIANLAN 215 by Placement Test. (Prerequisites enforced at registration.) (4). May not be repeated for credit. No credit granted to those who have completed or are enrolled in ASIANLAN 217.

**ASIANLAN 216. Second Year Hindi II**  
ASIANLAN 215 or by assignment of ASIANLAN 216 by Placement Test. (Prerequisites enforced at registration.) (4). (Lang Req). May not be repeated for credit. No credit granted to those who have completed or are enrolled in ASIANLAN 217.

**ASIANLAN 221. Second Year Indonesian I**  
ASIANLAN 122; or by assignment of ASIANLAN 221 by Placement Test. (Prerequisites enforced at registration.) (4). May not be repeated for credit.

**ASIANLAN 222. Second Year Indonesian II**  
ASIANLAN 221 or by assignment of ASIANLAN 222 by Placement Test. (Prerequisites enforced at registration.) (4). (Lang Req). May not be repeated for credit.

**ASIANLAN 225. Second Year Japanese I**  
One of: ASIANLAN 124, 126, 127, or 129 or RCLANG 196; or by assignment of ASIANLAN 225 by placement test. (Prerequisites enforced at registration.) Native or near-native speakers of Japanese are not eligible for this course. (5). May not be repeated for credit. No credit granted to those who have completed or are enrolled in ASIANLAN 227 or 229 or RCLANG 296.

**ASIANLAN 226. Second Year Japanese II**  
ASIANLAN 225; or assignment of ASIANLAN 226 by Placement Test. (Prerequisites enforced at registration.) (5). (Lang Req). May not be repeated for credit. No credit granted to those who have completed or are enrolled in ASIANLAN 227 or 229 or RCLANG 296.

**ASIANLAN 227. Intensive Second Year Japanese**



ASIANLAN 126 or 127 or 129 or RCLANG 196. (Prerequisites enforced at registration.) (10). (Lang Req). May not be repeated for credit. No credit granted to those who have completed or are enrolled in ASIANLAN 225 or 226 or 229 or RCLANG 296.

**ASIANLAN 229. Intensive Japanese II**

Consent of instructor required. ASIANLAN 129 or RCLANG 196. Students must have completed the first-year Japanese at the University of Michigan or have equivalent proficiency. (10). (Lang Req). May not be repeated for credit. No credit granted to those who have completed or are enrolled in ASIANLAN 225, 226, and 227.

**ASIANLAN 235. Second Year Korean I**

ASIANLAN 136 or 137 or by assignment of ASIANLAN 235 by Placement Test. (Prerequisites enforced at registration.) Native or near-native speakers of Korean are not eligible for this course. (5). May not be repeated for credit. No credit granted to those who have completed or are enrolled in ASIANLAN 237 or 238.

**ASIANLAN 236. Second Year Korean II**

ASIANLAN 235 or by assignment of ASIANLAN 236 by Placement Test. (Prerequisites enforced at registration.) (5). (Lang Req). May not be repeated for credit. No credit granted to those who have completed or are enrolled in ASIANLAN 237.

**ASIANLAN 238. Reading and Writing Korean II**

ASIANLAN 138 or by assignment of ASIANLAN 238 by Placement Test. (Prerequisites enforced at registration.) (5). (Lang Req). May not be repeated for credit. No credit granted to those who have completed or are enrolled in ASIANLAN 235, 236, or 237.

**ASIANLAN 245. Second Year Punjabi I**

ASIANLAN 146 or by assignment of ASIANLAN 245 by Placement Test. (Prerequisites enforced at registration.) (4). May not be repeated for credit. No credit granted to those who have completed or are enrolled in SSEA 372.

**ASIANLAN 246. Second Year Punjabi II**

ASIANLAN 245 or by assignment of ASIANLAN 246 by Placement Test. (Prerequisites enforced at registration.) (4). (Lang Req). May not be repeated for credit. No credit granted to those who have completed or are enrolled in SSEA 372.

**ASIANLAN 251. Second Year Sanskrit I**

ASIANLAN 152. (Prerequisites enforced at registration.) (4). May not be repeated for credit.

**ASIANLAN 252. Second Year Sanskrit II**

ASIANLAN 251. (Prerequisites enforced at registration.) (4). (Lang Req). May not be repeated for credit.

**ASIANLAN 261. Second Year Thai I**

ASIANLAN 162, or by assignment of ASIANLAN 261 by placement test. (Prerequisites enforced at registration.) (4). May not be repeated for credit.

**ASIANLAN 262. Second Year Thai II**

ASIANLAN 261 or by assignment of ASIANLAN 262 by Placement Test. (Prerequisites enforced at registration.) (4). (Lang Req). May not be repeated for credit.

**ASIANLAN 271. Second Year Urdu I**

ASIANLAN 172 or by assignment of ASIANLAN 271 by Placement Test. (Prerequisites enforced at registration.) (4). May not be repeated for credit.

**ASIANLAN 272. Second Year Urdu II**

ASIANLAN 271 or by assignment of ASIANLAN 272 by Placement Test. (Prerequisites enforced at registration.) (4). (Lang Req). May not be repeated for credit.

**ASIANLAN 275. Second Year Vietnamese I**

ASIANLAN 176 or by assignment of ASIANLAN 275 by Placement Test. (Prerequisites enforced at registration.) (4). May not be repeated for credit.

**ASIANLAN 276. Second Year Vietnamese II**

ASIANLAN 275 or by assignment of ASIANLAN 276 by Placement Test. (Prerequisites enforced at registration.) (4). (Lang Req). May not be repeated for credit.

**ASIANLAN 285. Second Year Bengali I**

ASIANLAN 186 or permission of instructor. (4). May not be repeated for credit.

**ASIANLAN 286. Second Year Bengali II**

ASIANLAN 285 or permission of instructor. (4). (Lang Req). May not be repeated for credit.

**ASIANLAN 301. Third Year Chinese I**

(ASIANLAN 202 or 203) or by Assignment of ASIANLAN 301 by Placement Test. (Prerequisites enforced at registration.) (5). May not be repeated for credit. No credit granted to those who have completed or are enrolled in ASIANLAN 303 or 304.

**ASIANLAN 302. Third Year Chinese II**

ASIANLAN 301 or by Assignment of ASIANLAN 302 by Placement Test. (Prerequisites enforced at registration.) (5). May not be repeated for credit. No credit granted to those who have completed or are enrolled in ASIANLAN 303 or 304.

**ASIANLAN 304. Third Year Chinese for Heritage Speakers**

ASIANLAN 204 or by Assignment of ASIANLAN 304 by Placement Test. (Prerequisites enforced at registration.) (4). May not be repeated for credit. Taught in Chinese.

**ASIANLAN 305. Intermediate Spoken Chinese I**

ASIANLAN 202 or 203; or by assignment of ASIANLAN 305 by Placement Test. (Prerequisites enforced at registration.) (2). May be elected twice for credit.

**ASIANLAN 306. Intermediate Spoken Chinese II**

(ASIANLAN 202 or 203 or 305) or by Assignment of ASIANLAN 306 by Placement Test. (Prerequisites enforced at registration.) (2). May not be repeated for credit. Native or near-native speakers of Mandarin can not earn credit for this course.

**ASIANLAN 325. Third Year Japanese I**

One of: ASIANLAN 226 or 227 or ASIANLAN 229 or RCLANG 296; or by assignment of ASIANLAN 325 by placement test. (Prerequisites enforced at registration.) Native or near-native speakers of Japanese are not eligible for this course. (4). May not be repeated for credit. No credit granted to those who have completed or are enrolled in ASIANLAN 327.

**ASIANLAN 326. Third Year Japanese II**

ASIANLAN 325 or by Assignment of ASIANLAN 326 by Placement Test. (Prerequisites enforced at registration.) (4). May not be repeated for credit. No credit granted to those who have completed or are enrolled in ASIANLAN 327 (or JAPANESE 411).

**ASIANLAN 335. Third Year Korean I**

ASIANLAN 236, 238 or 237; or Equivalent language proficiency from the most recent Korean Placement Test. (Prerequisites enforced at registration.) Native or near-native speakers of Korean are not eligible for this course. (4). May not be repeated for credit.

**ASIANLAN 336. Third Year Korean II**

ASIANLAN 335. (Prerequisites enforced at registration.) (4). May not be repeated for credit. Students with previous experience with Korean should contact the instructor for placement into the course.

**ASIANLAN 401. Advanced Spoken Chinese I**

ASIANLAN 302, ASIANLAN 304, or ASIANLAN 306. (Prerequisites enforced at registration.) (2). May not be repeated for credit.

**ASIANLAN 403. Introduction to Chinese Linguistics**

ASIANLAN 302 or ASIANLAN 304. (Prerequisites enforced at registration.) (3). May not be repeated for credit.

**ASIANLAN 405. Business Chinese I**

ASIANLAN 302, 303, or 304; or by assignment of ASIANLAN 405 by Placement Test. (Prerequisites enforced at registration.) Third year proficiency in Chinese or permission of instructor. (3). May not be repeated for credit. Rackham credit requires additional work.

**ASIANLAN 406. Business Chinese II**

ASIANLAN 405, by assignment of ASIANLAN 406 by Placement Test, or by permission of instructor. (Prerequisites enforced at registration.) ASIANLAN 302 or 303 or 304. (3). May not be repeated for credit. Conducted in Chinese.

**ASIANLAN 407. Advanced Chinese Reading and Writing I**

ASIANLAN 302 or 304. (Prerequisites enforced at registration.) (2). May not be repeated for credit.

**ASIANLAN 409. Classical Chinese in Modern Context**

ASIANLAN 302 or 304. (3). May not be repeated for credit. Conducted in Chinese.

**ASIANLAN 410. Media Chinese I**

(ASIANLAN 302 or 304) or by Assignment of ASIANLAN 410 by Placement Exam. (Prerequisites enforced at registration.) (3). May not be repeated for credit.

**ASIANLAN 411. Advanced Filipino I**

ASIANLAN 212, or by assignment of ASIANLAN 411 by placement test. (Prerequisites enforced at registration.) (3). May be elected twice for credit. Rackham credit requires additional work.

**ASIANLAN 412. Advanced Filipino II**

ASIANLAN 411 or by assignment of ASIANLAN 412 by Placement Test. (Prerequisites enforced at registration.) (3). May be elected twice for credit. Rackham credit requires additional work.

**ASIANLAN 417. Advanced Hindi I**

ASIANLAN 216 or 217 or by assignment of ASIANLAN 417 by Placement. (Prerequisites enforced at registration.) (3). May be elected twice for credit. Rackham credit requires additional work.

**ASIANLAN 418. Advanced Hindi II**

ASIANLAN 417 or by assignment of ASIANLAN 418 by Placement Test. (Prerequisites enforced at registration.) (3). May be elected twice for credit. W. Rackham credit requires additional work.

**ASIANLAN 419. Advanced Indonesian I**

ASIANLAN 222, or by assignment of ASIANLAN 419 by placement test. (Prerequisites enforced at registration.) (3). May be elected twice for credit. Rackham credit requires additional work.

**ASIANLAN 420. Advanced Indonesian II**

ASIANLAN 419 or by assignment of ASIANLAN 420 by Placement Test. (Prerequisites enforced at registration.) (3). May be elected twice for credit. Rackham credit requires additional work.

**ASIANLAN 425. Media Japanese I**

ASIANLAN 326 or 327. (Prerequisites enforced at registration.) ASIANLAN 326 with B- or above or pass a placement test. (3). May not be repeated for credit.

**ASIANLAN 426. Advanced Spoken Japanese**

ASIANLAN 326. (Prerequisites enforced at registration.) (2). May not be repeated for credit.

**ASIANLAN 429. Japanese Through Business and Social Topics I**

ASIANLAN 326 or 327. (Prerequisites enforced at registration.) ASIANLAN 326 with B- or above or pass a placement test. (3). May not be repeated for credit. Rackham credit requires additional work.

**ASIANLAN 430. Japanese Through Business and Social Topics II**

ASIANLAN 429. (Prerequisites enforced at registration.) (3). May not be repeated for credit. Rackham credit requires additional work.

**ASIANLAN 433. Classical Japanese I**

ASIANLAN 226 or 227. (Prerequisites enforced at registration.) (4). May not be repeated for credit.

**ASIANLAN 435. Advanced Reading and Writing in Korean**

ASIANLAN 336. (Prerequisites enforced at registration.) (2). May not be repeated for credit.

**ASIANLAN 436. Advanced Spoken Korean**

ASIANLAN 336. (Prerequisites enforced at registration.) (2). May not be repeated for credit.

**ASIANLAN 438. Media Korean**

ASIANLAN 336 or permission of instructor. Consent of instructor required. (Prerequisites enforced at registration.) Minimum of Third-Year proficiency in Korean. (3). May not be repeated for credit.

**ASIANLAN 439. Academic Japanese I**

ASIANLAN 326 with A- or above or pass a placement test. Students must also have mastery of over 1500 kanji and a solid foundation in grammar and reading. (2). May not be repeated for credit. Rackham credit requires additional work.

**ASIANLAN 440. Academic Japanese II**

ASIANLAN 439 with A- or above. (2). May not be repeated for credit. Rackham credit requires additional work.

**ASIANLAN 441. Practicum in Japanese Translation (Hon'yaku jisshu)**

ASIANLAN 326 completed with a minimum grade of B+ or better. (Prerequisites enforced at registration.) ASIANLAN 326 with a minimum grade of B+ or permission of instructor. For non-native speakers of Japanese: JLPT N2, Placement test, and/or knowledge of 800 kanji. For non-native speakers of English: TOEFL IBT 100 or above. (3). May be elected twice for credit.

**ASIANLAN 445. Chinese Language Pedagogy**

ASIANLAN 402 or 4th year proficiency. (3). May not be repeated for credit.

**ASIANLAN 450. Japanese Pedagogy I**

4th year proficiency in Japanese Language. (3). May not be repeated for credit. Rackham credit requires additional work.

**ASIANLAN 461. Advanced Thai I**

ASIANLAN 262, or by assignment of ASIANLAN 461 by placement test. (Prerequisites enforced at registration.) (3). May be elected twice for credit. Rackham credit requires additional work.

**ASIANLAN 462. Advanced Thai II**

ASIANLAN 461 or by assignment of ASIANLAN 462 by Placement Test. (Prerequisites enforced at registration.) (3). May be elected twice for credit. Rackham credit requires additional work.

**ASIANLAN 463. Advanced Tibetan I**

ASIANLAN 266. (3). May be elected twice for credit. Rackham credit

requires additional work.

**ASIANLAN 464. Advanced Tibetan II**

ASIANLAN 463. (Prerequisites enforced at registration.) ASIANLAN 365. (3). May not be repeated for credit. Rackham credit requires additional work.

**ASIANLAN 469. Advanced Classical Tibetan I**

ASIANLAN 468 or by assignment of ASIANLAN 469 by Placement Test. (Prerequisites enforced at registration.) (3). May be elected twice for credit.

**ASIANLAN 470. Advanced Classical Tibetan II**

ASIANLAN 469 or by assignment of ASIANLAN 470 by Placement Test. (Prerequisites enforced at registration.) (3). May be elected twice for credit.

**ASIANLAN 471. Advanced Urdu I**

ASIANLAN 272 or by assignment of ASIANLAN 471 by Placement Test. (Prerequisites enforced at registration.) (3). May be elected twice for credit. Rackham credit requires additional work.

**ASIANLAN 472. Advanced Urdu II**

ASIANLAN 471 or by assignment of ASIANLAN 472 by Placement Test. (Prerequisites enforced at registration.) (3). May be elected twice for credit. W. Rackham credit requires additional work.

**ASIANLAN 475. Advanced Vietnamese I**

ASIANLAN 276 or by assignment of ASIANLAN 475 by Placement Test. (Prerequisites enforced at registration.) (3). May be elected twice for credit. Rackham credit requires additional work.

**ASIANLAN 476. Advanced Vietnamese II**

ASIANLAN 475, or by assignment of ASIANLAN 476 by placement test. (Prerequisites enforced at registration.) (3). May be elected twice for credit. Rackham credit requires additional work.

**ASIANLAN 479. Teaching Korean in the Community**

ASIANLAN 336 or advanced Korean language proficiency. (2). (EXPERIENTIAL). May be elected twice for credit. Offered mandatory credit/no credit.

**ASIANLAN 480. Topics in Asian Languages**

Students should not elect the same topic twice. (1 - 4). May be elected three times for credit. May be elected more than once in the same term.

**ASIANLAN 499. Independent Language Study**

Permission of Instructor. (1 - 5). (INDEPENDENT). May be repeated for a maximum of 8 credits. May be elected more than once in the same term.

## Courses in LSA Astronomy

## Astronomy (ASTRO)

### ASTRO 101. Introductory Astronomy: The Solar System and the Search for a new Earth

A basic high school math and science background. (4). (NS). (BS). (QR/2). May not be repeated for credit. No credit granted to those who have completed or are enrolled in ASTRO 115. F, W.

### ASTRO 102. Introductory Astronomy: Stars, Galaxies, and the Universe

A basic high school math and science background. (4). (NS). (BS). (QR/2). May not be repeated for credit. No credit granted to those enrolled in or have completed ASTRO 104, ASTRO 142, or ASTRO 201. F, W.

### ASTRO 104. Alien Skies: A Tour Through the Universe

(3). (NS). (BS). (QR/2). May not be repeated for credit. No credit granted to those enrolled in or have completed ASTRO 102, 142, or 201.

### ASTRO 105. The Cosmos Through the Constellations

(3). (NS). (BS). (QR/2). May not be repeated for credit.

### ASTRO 106. Aliens

(1). (NS). (BS). May not be repeated for credit. No credit granted to those who have completed or are enrolled in ASTRO 115.

### ASTRO 107. The Dark Side of the Universe

(1). (NS). (BS). May not be repeated for credit. No credit granted to those who have completed or are enrolled in ASTRO 102, 104, 142, or 201.

### ASTRO 115. Introductory Astrobiology: The Search for Life in the Universe

Basic high school math and science background. (3). (NS). (BS). (QR/2). May not be repeated for credit. No credit granted to those who have completed or are enrolled in ASTRO 101.

### ASTRO 127. Naked Eye Astronomy

(1). (NS). (BS). May not be repeated for credit. No credit granted to those who have completed or are enrolled in ASTRO 105 or ASTRO 188.

### ASTRO 142. From the Big Bang to the Milky Way

(3). (NS). (BS). (QR/2). May not be repeated for credit. No credit granted to those who have completed or are enrolled in: ASTRO 102, 104, or 201; or PHYSICS 112.

### ASTRO 183 / SPACE 103. Introduction to Space Weather

(3). May not be repeated for credit.

### ASTRO 201. Introduction to Astrophysics

Calculus and physics at the high school or university level is strongly recommended. (4). (NS). (BS). (QR/1). May not be repeated for credit.

### ASTRO 206. Black Holes: The Triumph of Gravity

Any one of: PHYSICS 135, 139, 140 or 160. (Prerequisites enforced at registration.) 3 credits of any Astronomy course, with the exception of ASTRO 183 and ASTRO 261. (3). (NS). (BS). (QR/1). May not be repeated for credit.

### ASTRO 220. New Discoveries in Astronomy

Any one of: PHYSICS 112, ASTRO 101, 102, 104, 105, 115, 142, or 201. (Prerequisites enforced at registration.) (3). (NS). (BS). (QR/2). May be repeated for a maximum of 6 credits. Credit granted for a combined total of 6 credits in ASTRO 220 and ASTRO 420.

### ASTRO 255 / EARTH 255. Earth and Space Sciences for Elementary School Educators

High school mathematics and physics recommended. (3). (NS). (BS). May not be repeated for credit. No credit granted to those who have completed or are enrolled in ASTRO 101 or 115, or EARTH 171 (or GEOSCI 171) or AOSS 171 or BIOLOGY 110 or ENSCEN 171 or ENVIRON 110.

### ASTRO 261 / NAVSCI 301. Navigation

(3). (BS). May not be repeated for credit. F.

### ASTRO 300 / HISTORY 300. The Beginning and The End: A History of Cosmology

(3). (ID). May not be repeated for credit.

### ASTRO 301 / HISTORY 301. Discovery of the Universe

(3). (ID). May not be repeated for credit.

### ASTRO 305. Astronomy in the Community

Consent of instructor required. At least 3 credits in Astronomy. (1 - 3). (BS). (EXPERIENTIAL). May be repeated for a maximum of 9 credits.

### ASTRO 361. Astronomical Techniques

ASTRO 201 or permission of instructor. (4). (BS). May not be repeated for credit. F.

### ASTRO 389. Individual Studies in Astronomy

Consent of instructor required. (1 - 3). (INDEPENDENT). May be repeated for credit.

### ASTRO 399. Introduction to Research

Consent of instructor required. (1 - 3). (BS). (INDEPENDENT). May be repeated for credit. Continuing Course. Y grade can be reported at end of the first-term to indicate work in progress. At the end of the second term, the final grade is posted for both term's elections.

### ASTRO 401. Exoplanets

MATH 215, 255 or 285, and prior or concurrent enrollment in PHYSICS 340 or PHYSICS 360, or graduate standing. (Prerequisites enforced at registration.) MATH 216, 256 or 286 and ASTRO 201. (3). (BS). May not be repeated for credit. W.

### ASTRO 402. Stellar Astrophysics

MATH 215, 255 or 285, and prior or concurrent enrollment in PHYSICS 340 or PHYSICS 360, or graduate standing. (Prerequisites enforced at registration.) MATH 216, 256 or 286 and ASTRO 201. (3). (BS). May not be repeated for credit. F.

**ASTRO 404. Galaxies and the Universe**

MATH 215, 255 or 285, and prior or concurrent enrollment in PHYSICS 340 or PHYSICS 360, or graduate standing. (Prerequisites enforced at registration.) MATH 216, 256 or 286 and ASTRO 102, 142 or 201. (3). (BS). May not be repeated for credit. W.

**ASTRO 405. High Energy Astrophysics**

MATH 216, 256 or 286, ASTRO 201, PHYSICS 340 or 360, and prior or concurrent enrollment in PHYSICS 390. (3). (BS). May not be repeated for credit. W.

**ASTRO 406. Computational Astrophysics**

Prior or concurrent enrollment in MATH 216, 256 or 286, prior or concurrent enrollment in PHYSICS 235, 240 or 260, and some knowledge of programming. (3). (BS). May not be repeated for credit. F.

**ASTRO 420. New Discoveries in Astronomy for Advanced Students**

ASTRO 201, and one of: PHYSICS 140, 160, or 123. (Prerequisites enforced at registration.) (3). (BS). May be repeated for a maximum of 6 credits. Credit granted for a combined total of 6 credits in ASTRO 220 and ASTRO 420.

**ASTRO 429. Scientific Writing and Communication in Astronomy**

ASTRO 201 or graduate standing. (Prerequisites enforced at registration.) (3). (BS). May not be repeated for credit. W.

**ASTRO 461. Ground-Based Observatories**

Consent of department required. ASTRO 201 and ASTRO 361. (3 in the half-term). (BS). May not be repeated for credit. Sp. (Kitt Peak National Observatory, Arizona).

## Courses in LSA Biology

### Biology (BIOLOGY)

**BIOLOGY 100. Biology for Nonscientists**

Some exposure to biology and chemistry at the high school level is assumed. (4). (NS). (BS). May not be repeated for credit. Credit is granted for a combined total of 17 credits elected in introductory biology. Not open to those with Advanced Placement or "Departmental" credit in biology, nor to those majoring in the biological sciences. F.

**BIOLOGY 101 / ENVIRON 101. Food, Energy, and Environmental Justice**

(4). (NS). (BS). May not be repeated for credit. Credit is granted for a combined total of 17 credits elected in introductory biology. F.

**BIOLOGY 102. Practical Botany**

(4). (NS). (BS). May not be repeated for credit. Credit is granted for a combined total of 17 credits elected in introductory biology. W.

**BIOLOGY 105. Biology of Nutrition**

(4). (NS). (BS). May not be repeated for credit. Credit is granted for a combined total of 17 credits elected in introductory biology. F.

**BIOLOGY 106 / CHEM 106. Quantitative Reasoning in Biological Sciences**

MATH 103 or MATH 105 (corequisite). (3 in the half-term). (NS). (BS). (QR/1). May not be repeated for credit.

**BIOLOGY 107. Evolution of Life**

Some exposure to biology at the high school level is assumed. (3). (NS). (BS). May not be repeated for credit. Credit is granted for a combined total of 17 credits elected in introductory biology.

**BIOLOGY 108. Introduction to Animal Diversity**

(4). (NS). (BS). May not be repeated for credit. Credit is granted for a combined total of 17 credits elected in introductory biology. W.

**BIOLOGY 109. Ecological Knowledge and Environmental Problem Solving**

(3). (NS). (BS). May not be repeated for credit. Credit is granted for a combined total of 17 credits elected in introductory biology. W.

**BIOLOGY 110 / AOSS 171 / EARTH 171 / ENSCEN 171 / ENVIRON 110 / RCNSCI 110. Introduction to Global Change: The Science Behind Sustainability**

(4). (NS). (BS). May not be repeated for credit. Credit is granted for a combined total of 17 credits elected in introductory biology. Satisfies the geography requirement for State of Michigan certification for social studies teachers. F.

**BIOLOGY 116. Biology of Sex**

(3). (NS). (BS). May not be repeated for credit. Credit is granted for a combined total of 17 credits elected in introductory biology.

**BIOLOGY 118. AIDS and Other Health Crises**

(3). (NS). (BS). May not be repeated for credit. Credit is granted for a combined total of 17 credits elected in introductory biology. W.

**BIOLOGY 120. First Year Seminar in Biology**

Enrollment restricted to first-year students, including those with sophomore standing. (3). (NS). (BS). May not be repeated for credit. Credit is granted for a combined total of 17 credits elected in introductory biology.

**BIOLOGY 121. Topics in Biology**

(1 - 4). (NS). (BS). May be elected four times for credit. May be elected more than once in the same term.

**BIOLOGY 125. Biotechnology and Society**

A high school level course in biology. (3). (NS). (BS). May not be repeated for credit. No credit granted to those who have completed or

are enrolled in RCNSCI 270. Credit is granted for a combined total of 17 credits elected in introductory biology.

**BIOLOGY 130. Animal Behavior**

(4). (NS). (BS). May not be repeated for credit. Credit is granted for a combined total of 17 credits elected in introductory biology. F.

**BIOLOGY 144. Decoding Your DNA: Implications for You and Society**

(3). (NS). (BS). May not be repeated for credit.

**BIOLOGY 171. Introductory Biology: Ecology and Evolution**

(4). (NS). (BS). May not be repeated for credit. No credit granted to those who have completed BIOLOGY 162 or 163 or 195. Credit is granted for a combined total of 17 credits elected in introductory biology. BIOLOGY 171 and 172 can be taken in either order.

**BIOLOGY 172. Introductory Biology - Molecular, Cellular, and Developmental**

Prior or concurrent enrollment in CHEM 130. (4). (NS). (BS). May not be repeated for credit. No credit granted to those who have completed or are enrolled in BIOLOGY 162, 163, 174, or 195. Credit is granted for a combined total of 17 credits elected in introductory biology. BIOLOGY 171 and 172 can be taken in either order.

**BIOLOGY 173. Introductory Biology Laboratory**

BIOLOGY 163 or 171 or 172 or 174 or 195. (Prerequisites enforced at registration.) Students should have completed one of the introductory lecture courses [either BIOLOGY 171 or (172 or 174)] and be concurrently enrolled in the other. (2). (NS). (BS). May not be repeated for credit. No credit granted to those who have completed BIOLOGY 162. Credit is granted for a combined total of 17 credits elected in introductory biology.

**BIOLOGY 174. Introduction to Cell and Molecular Biology**

Prior or concurrent enrollment in CHEM 130. (4). (NS). (BS). May not be repeated for credit. No credit granted to those who have completed or are enrolled in BIOLOGY 172 or 195. Credit is granted for a combined total of 17 credits elected in introductory biology.

**BIOLOGY 197. Science Writing for Everyday Life**

(4). (BS). May not be repeated for credit.

**BIOLOGY 200. Undergraduate Tutorial**

Consent of instructor required. Permission of faculty member in biology. (1 - 3). (INDEPENDENT). May be repeated for a maximum of 6 credits. F, W, Sp/Su, Sp, Su.

**BIOLOGY 201. Intermediate Topics in Biology**

BIOLOGY 171, 172/74, or 195. (3). (NS). (BS). May be elected three times for credit. May be elected more than once in the same term.

**BIOLOGY 202. Mathematics of Life: Introduction to Quantitative Biology**

MATH 115 or equivalent (MATH 120, 156, or 185). (Prerequisites enforced at registration.) (4). (BS). May not be repeated for credit.

**BIOLOGY 205. Developmental Biology**

BIOLOGY 162 or 163; or BIOLOGY 171 and either 172 or 174; or BIOLOGY 195. (Prerequisites enforced at registration.) (3). (BS). May not be repeated for credit.

**BIOLOGY 207. Microbiology**

BIOLOGY 171, (172 or 174), & 173, or BIOLOGY 195 & 173; AND CHEM 210. (Prerequisites enforced at registration.) (4). (NS). (BS). May not be repeated for credit. Satisfies a Biology laboratory requirement. F and W.

**BIOLOGY 212. Plants and Human Health**

BIOLOGY 171 & 172/174, or BIOLOGY 195. (Prerequisites enforced at registration.) (3). (NS). (BS). May not be repeated for credit. No credit granted to those who have completed or are enrolled in BIOLOGY 230.

**BIOLOGY 225. Principles of Human and Animal Physiology**

BIOLOGY 171 and (172 or 174); or BIOLOGY 195. (Prerequisites enforced at registration.) Prior or concurrent enrollment in CHEM 210. (3). (NS). (BS). May not be repeated for credit. F and W.

**BIOLOGY 226. Animal Physiology Laboratory**

BIOLOGY 173. (Prerequisites enforced at registration.) Prior or concurrent enrollment in BIOLOGY 225. (2). (NS). (BS). May not be repeated for credit. Satisfies a Biology laboratory requirement or an elective requirement in most biology majors and minors. F, W.

**BIOLOGY 230. Introduction to Plant Biology**

BIOLOGY 171, (172 or 174), & 173; or BIOLOGY 195 & 173. (4; 5 in the half-term). (NS). (BS). May not be repeated for credit. No credit granted to those who have completed or are enrolled in BIOLOGY 212. F; Sp/Su at the Biological Station. Satisfies a Biology laboratory requirement.

**BIOLOGY 232. Honors Core in Biology**

Consent of department required. (4). (NS). (BS). May be elected twice for credit. May be elected more than once in the same term.

**BIOLOGY 241. Health, Biology, and Society: What is Cancer?**

(4). (ID). (BS). May not be repeated for credit. No credit granted to those who have completed or are enrolled in AMCULT 241.

**BIOLOGY 242. Honors Core Writing in Biology**

Consent of department required. (4). (NS). (FYWR). (BS). May be elected twice for credit. May be elected more than once in the same term.

**BIOLOGY 252. Vertebrate Evolution and Diversity**

BIOLOGY 171, (172 or 174), & 173 or BIOLOGY 195 & 173. (4). (BS). May not be repeated for credit. Satisfies a Biology laboratory requirement. F.

**BIOLOGY 255 / ENVIRON 255. Plant Diversity**

(4). (NS). (BS). May not be repeated for credit. Satisfies a Biology laboratory requirement.

**BIOLOGY 256. Environmental Physiology of Animals**

*BIOLOGY 171 & 172 & 173; or BIOLOGY 195 (AP) & 173. (Prerequisites enforced at registration.) AP Physics or PHYSICS 135, 140 or 160 or equivalent; and AP Math or MATH 115 or 116 or equivalent. (4). (NS). (BS). May not be repeated for credit.*

**BIOLOGY 281 / ENVIRON 281. General Ecology**

*BIOLOGY 171, (172 or 174) & 173; or BIOLOGY 195 & 173; AND a laboratory course in CHEM (BIOLOGY 172 and 173 are strongly recommended). (3). (NS). (BS). May not be repeated for credit. No credit granted to those who have completed or are enrolled in EEB 381 or ENVIRON 381. F and W.*

**BIOLOGY 288. Animal Diversity**

*BIOLOGY 171, (172 or 174), & 173; or BIOLOGY 195 & 173. (4). (NS). (BS). May not be repeated for credit. Satisfies a Biology laboratory requirement.*

**BIOLOGY 305. Genetics**

*BIOLOGY 162 or 163; or BIOLOGY 171 and either 172 or 174; or BIOLOGY 195. (Prerequisites enforced at registration.) Prior or concurrent enrollment in CHEM 210. (3). (BS). May not be repeated for credit. F, W, Sp.*

## Courses in LSA Biophysics

### Biophysics (BIOPHYS)

**BIOPHYS 116. Introduction to Medical Imaging**

*Enrollment restricted to first-year students, including those with sophomore standing. (3). (NS). (BS). May not be repeated for credit.*

**BIOPHYS 117. Introduction to Programming in the Sciences**

*(3). (MSA). (BS). May not be repeated for credit.*

**BIOPHYS 120. The Discovery of the DNA Double Helix and its Hidden Mysteries**

*(3). (NS). (BS). (QR/1). May not be repeated for credit.*

**BIOPHYS 123. The Science of Food and Cooking (Soft Matter and Kitchen Science)**

*(3). (NS). May not be repeated for credit.*

**BIOPHYS 130. DNA Origami**

*(3). (NS). (BS). May not be repeated for credit.*

**BIOPHYS 280. Biophysics Undergraduate Research (UROP)**

*(1 - 4). (EXPERIENTIAL). May be repeated for a maximum of 8 credits. Credit is granted for a combined total of 8 credits in any UROP research courses.*

**BIOPHYS 290 / PHYSICS 290. Physics of the Body and Mind**

*PHYSICS 125 or 135 or 140 or 160. (Prerequisites enforced at registration.) MATH 115 or equivalent AP credits. (3). (NS). (BS).*

*(QR/2). May not be repeated for credit.*

**BIOPHYS 370 / CHEM 370 / PHYSICS 370. Physical and Chemical Principles Behind Biology and Medicine**

*MATH 215; and PHYSICS 235 or 240. (Prerequisites enforced at registration.) CHEM 130 or placement in 210. (3). (NS). (BS). May not be repeated for credit. No credit granted to students who have completed or are enrolled in CHEM 260 or PHYSICS 390.*

**BIOPHYS 399. Research in Biophysics**

*(1 - 4). (BS). (INDEPENDENT). May be repeated for a maximum of 8 credits.*

**BIOPHYS 415. Directed Study**

*(1 - 4). (BS). (INDEPENDENT). May be elected twice for credit. May be elected more than once in the same term.*

**BIOPHYS 417 / CHEM 417 / PHYSICS 417. Dynamical Processes in Biophysics**

*MATH 216 or 256 or 286 or 296 or 316; and BIOPHYS 370 or PHYSICS 340 or PHYSICS 360 or PHYSICS 370 or CHEM 463 or CHEM 370. (Prerequisites enforced at registration.) (3). (BS). May not be repeated for credit.*

**BIOPHYS 420. Structural Biology I**

*BIOPHYS 370 plus one of CHEM 351, MCDB 310, MCDB 411, or BIOLCHEM 415. (Prerequisites enforced at registration.) (3). (BS). May not be repeated for credit.*

**BIOPHYS 421. Structural Biology II**

*BIOPHYS 420. (Prerequisites enforced at registration.) (3). (BS). May not be repeated for credit.*

**BIOPHYS 435. Biophysical Modeling**

*BIOPHYS 417 or PHYSICS 417 or CHEM 417; or graduate standing. (Prerequisites enforced at registration.) (3). (BS). May not be repeated for credit. Rackham credit requires additional work.*

**BIOPHYS 440 / CHEM 440. Biophysics of Diseases**

*BIOPHYS 370 or CHEM 370 or PHYSICS 370. (3). (BS). May not be repeated for credit.*

**BIOPHYS 450 / PHYSICS 450. Laboratory Techniques in Biophysics**

*BIOPHYS 370 or CHEM 370 or PHYSICS 370; or PHYSICS 390; or CHEM 452 or BIOLCHEM 452; or graduate standing. (Prerequisites enforced at registration.) (3). (BS). May not be repeated for credit. Rackham credit requires additional work.*

**BIOPHYS 454 / CHEM 454. Biophysical Chemistry II: Macromolecular Structure and Dynamics**

*CHEM 453 or 463, and CHEM 451/452 or equivalent. (3). (BS). May not be repeated for credit. W.*

**BIOPHYS 463 / BIOINF 463 / MATH 463. Mathematical Modeling in Biology**

MATH 214, 217, 417, or 419; and MATH 216, 256, 286, or 316. (3). (BS). May not be repeated for credit.

**BIOPHYS 495. Senior Seminar in Biophysics**

BIOPHYS 450 or PHYSICS 450; or graduate standing. (Prerequisites enforced at registration.) (3). (BS). May not be repeated for credit. Rackham credit requires additional work.

**BIOPHYS 498. Senior Thesis**

BIOPHYS 399. (1 - 4). (BS). (INDEPENDENT). May not be repeated for credit.

**BIOPHYS 499. Honors Thesis**

BIOPHYS 399. (1 - 4). (BS). (INDEPENDENT). May not be repeated for credit.

**BIOPHYS 520 / CHEM 520. Methods of Biophysical Chemistry**

CHEM 463, BIOLCHEM 415, or CHEM 420; permission of course director. (3). (BS). May not be repeated for credit. F.

**BIOPHYS 521 / CHEM 521. Principles of Biophysical Chemistry**

CHEM 461, BIOLCHEM 415, and CHEM 430; and permission of course director. (3). (BS). May not be repeated for credit. W.

## Courses in LSA Chemistry

### Chemistry (CHEM)

**CHEM 105 / CLIMATE 105 / ENSCEN 105 / ENVIRON 105. Our Changing Atmosphere**

(3). (NS). (BS). May not be repeated for credit.

**CHEM 106 / BIOLOGY 106. Quantitative Reasoning in Biological Sciences**

MATH 103 or MATH 105 (corequisite). (3 in the half-term). (NS). (BS). (QR/1). May not be repeated for credit.

**CHEM 108 / EARTH 130 / PHYSICS 119. The Physical World**

High-school algebra. (4). (NS). (BS). (QR/2). May not be repeated for credit.

**CHEM 109 / PHYSICS 109. Natural Science: Bridging the Gaps**

(3). (NS). (BS). May not be repeated for credit.

**CHEM 120. First Year Seminar in Chemistry**

Enrollment restricted to first-year students, including those with sophomore standing. (3). (NS). (BS). May not be repeated for credit.

**CHEM 125. General Chemistry Laboratory I**

Concurrent enrollment in CHEM 126. (Prerequisites enforced at registration.) To be elected by students who are eligible for (or enrolled in) CHEM 130, and concurrent enrollment in CHEM 126. (1). (NS). (BS). May not be repeated for credit. F, W, Su.

**CHEM 126. General Chemistry Laboratory II**

Concurrent enrollment in CHEM 125. (Prerequisites enforced at registration.) To be elected by students who are eligible for (or enrolled in) CHEM 130, and concurrent enrollment in CHEM 125. (1). (NS). (BS). May not be repeated for credit. F, W, Su.

**CHEM 130. General Chemistry: Macroscopic Investigations and Reaction Principles**

Three years of high school math or MATH 105; one year of high school chemistry recommended. Placement by testing, or permission of Chemistry department. (3). (NS). (BS). (QR/2). May not be repeated for credit. Intended for students without AP credit in Chemistry. Neither CHEM 130, nor AP credits earned for CHEM 130, count toward the minors in Chemistry. F, W, Su.

**CHEM 209. Structure and Reactivity Seminar**

CHEM 210 enforced co enrollment and permission by department. Consent of department required. (Prerequisites enforced at registration.) (1). (NS). (BS). May not be repeated for credit. Offered mandatory credit/no credit.

**CHEM 210. Structure and Reactivity I**

High school chemistry. Placement by examination during Orientation. To be taken with CHEM 211. (4). (NS). (BS). May not be repeated for credit. No credit granted to those who have completed CHEM 215. F, W, Su.

**CHEM 211. Investigations in Chemistry**

To be taken concurrently with CHEM 210. (1). (NS). (BS). May not be repeated for credit. Students who have completed CHEM 216 will not receive credit for CHEM 211. F, W, Su.

**CHEM 215. Structure and Reactivity II**

CHEM 210/211. To be taken with CHEM 216. (3). (NS). (BS). May not be repeated for credit. F, W, Sp.

**CHEM 216. Synthesis and Characterization of Organic Compounds**

CHEM 210/211. Must be taken with CHEM 215. (2). (NS). (BS). May not be repeated for credit. F, W, Sp.

**CHEM 218. Independent Study in Biochemistry**

Consent of instructor required. For students with less than junior standing. (1). (INDEPENDENT). May be repeated for a maximum of 4 credits. F, W, Sp/Su, Sp, Su.

**CHEM 219. Independent Study in Chemistry**

Consent of instructor required. For students with less than junior standing. (1). (INDEPENDENT). May be repeated for a maximum of 4 credits. F, W, Sp/Su, Sp, Su.

**CHEM 220. Teaching Experience for Undergraduates**

Consent of instructor required. (1 - 3). (INDEPENDENT). May be repeated for a maximum of 4 credits.

**CHEM 230. Physical Chemical Principles and Applications**

CHEM 215/216. Students who plan to continue beyond a fourth term



in Chemistry would typically enroll in CHEM 260/241/242 instead of CHEM 230; credit will not be given for both of these courses. (3). (NS). (BS). May not be repeated for credit. No credit granted to those who have completed or are enrolled in CHEM 260. F, W, Sp.

**CHEM 241. Introduction to Chemical Analysis**

Prior or concurrent enrollment in CHEM 230 or 260, and concurrent enrollment in CHEM 242. (2). (NS). (BS). May not be repeated for credit. No credit granted to those who have completed or are enrolled in CHEM 245. F, W.

**CHEM 242. Introduction to Chemical Analysis Laboratory**

Prior or concurrent enrollment in CHEM 230 or 260, and concurrent enrollment in CHEM 241. (2). (NS). (BS). May not be repeated for credit. No credit granted to those who have completed or are enrolled in CHEM 246 or CHEM 247. F, W.

**CHEM 245. Biomedical Analytical Chemistry**

CHEM 130 or equivalent. CHEM 245 must be taken concurrently with the accompanying lecture/laboratory offerings, CHEM 246/247. (2). (NS). (BS). May not be repeated for credit. No credit granted to those who have completed or are enrolled in CHEM 241.

**CHEM 246. Biomedical Analytical Chemistry Laboratory I**

CHEM 130 or equivalent. CHEM 246 (LEC/LAB) must be taken concurrently with CHEM 245 and CHEM 247. (1). (NS). (BS). May not be repeated for credit. No credit granted to those who have completed or are enrolled in CHEM 242.

**CHEM 247. Biomedical Analytical Chemistry Laboratory II**

CHEM 130 or equivalent. CHEM 247 must be taken together with CHEM 245 and CHEM 246. (1). (NS). (BS). May not be repeated for credit. No credit granted to those who have completed or are enrolled in CHEM 242.

**CHEM 260. Chemical Principles**

CHEM 210/211, MATH 115, and prior or concurrent enrollment in PHYSICS 135 or 140 or 160. (3). (NS). (BS). May not be repeated for credit. No credit granted for students who have completed or are enrolled in BIOPHYS 370. F, W, Sp.

**CHEM 261. Introduction to Quantum Chemistry**

CHEM 215/216, MATH 115, and prior or concurrent enrollment in PHYSICS 140 (or 160). CHEM 261 is intended primarily for Chemical Engineering students. (1). (BS). May not be repeated for credit. No credit granted to those who have completed or are enrolled in CHEM 260. CHEM 261 is intended for Chemical Engineering students only. F, W, Sp.

**CHEM 262. Mathematical Methods for Physical Scientists**

MATH 115 and 116. (4). (MSA). (BS). (QR/1). May not be repeated for credit.

**CHEM 290. Sophomore Seminar**

CHEM 210. (3). (NS). (BS). May not be repeated for credit.

**CHEM 302. Inorganic Chemistry: Molecules, Materials and Applications in Energy**

CHEM 210/211 or 215/216. (3). (NS). (BS). May not be repeated for credit. A student can receive credit for only one of CHEM 302 or CHEM 303. F, W.

**CHEM 303. Introductory Bioinorganic Chemistry: The Role of Metals in Life**

CHEM 210/211 or 215/216. (3). (NS). (BS). May not be repeated for credit. A student can receive credit for only one of CHEM 302 or CHEM 303.

**CHEM 351. Fundamentals of Biochemistry**

Completion of BIOLOGY 172 or equivalent; CHEM 210 and completion or concurrent in CHEM 215. (4). (NS). (BS). May not be repeated for credit. No credit granted to those who have completed or are enrolled in MCDB 310 or BIOLCHEM 415. F, W.

**CHEM 352. Introduction to Biochemical Research Techniques**

Current or prior enrollment in CHEM 351. (2). (BS). May not be repeated for credit. No credit granted to those who have completed or are enrolled in CHEM 353. F, W.

**CHEM 353. Introduction to Biochemical Research Techniques and Scientific Writing**

(3). (BS). May not be repeated for credit. No credit granted to those who have completed or are enrolled in CHEM 352.

**CHEM 370 / BIOPHYS 370 / PHYSICS 370. Physical and Chemical Principles Behind Biology and Medicine**

MATH 215; and PHYSICS 235 or 240. (Prerequisites enforced at registration.) CHEM 130 or placement in 210. (3). (NS). (BS). May not be repeated for credit. No credit granted to students who have completed or are enrolled in CHEM 260 or PHYSICS 390. F, W.

**CHEM 398. Undergraduate Research in Biochemistry**

Consent of instructor required. Junior standing, and permission of a Biochemistry concentration advisor and the professor who will supervise the research. (1 - 4). (BS). (INDEPENDENT). May be repeated for a maximum of 4 credits. F, W, Sp/Su, Sp, Su.

**CHEM 399. Undergraduate Research**

Consent of instructor required. Junior standing, and permission of a chemistry concentration advisor and the professor who will supervise the research. (1 - 4). (BS). (INDEPENDENT). May be repeated for a maximum of 4 credits. F, W, Sp/Su, Sp, Su.

**CHEM 402. Intermediate Inorganic Chemistry**

CHEM 302 or CHEM 303, and 461/462. (3). (BS). May not be repeated for credit. F.

**CHEM 415. Responsible Conduct in Chemical Research**

(1). May be elected twice for credit. May be elected more than once in the same term.

**CHEM 417 / BIOPHYS 417 / PHYSICS 417. Dynamical Processes in**

**Biophysics**

MATH 216 or 256 or 286 or 296 or 316; and BIOPHYS 370 or PHYSICS 340 or PHYSICS 360 or PHYSICS 370 or CHEM 463 or CHEM 370. (Prerequisites enforced at registration.) (3). (BS). May not be repeated for credit.

**CHEM 419. Intermediate Physical Organic Chemistry**

CHEM 210 and CHEM 215. (3). (BS). May not be repeated for credit.

**CHEM 420. Intermediate Organic Chemistry**

CHEM 215 and 216 or their equivalents. (3). (BS). May not be repeated for credit.

**CHEM 425. Special Topics in Organic Chemistry**

CHEM 215. (3). (BS). May not be repeated for credit.

**CHEM 436. Polymer Synthesis and Characterization**

CHEM 260. (3). (BS). May not be repeated for credit. W odd years.

**CHEM 440 / BIOPHYS 440. Biophysics of Diseases**

BIOPHYS 370 or CHEM 370 or PHYSICS 370. (3). (BS). May not be repeated for credit.

**CHEM 447. Physical Methods of Analysis**

CHEM 260 or 370 and 241/242. (3). (BS). May not be repeated for credit. F, W.

**CHEM 451 / BIOLCHEM 451. Advanced Biochemistry:****Macromolecular Structure and Function**

CHEM 215, 260, 351 and BIOLOGY 171 or 172. (4). (BS). May not be repeated for credit. F.

**CHEM 452 / BIOLCHEM 452. Advanced Biochemistry: Cellular Processes**

CHEM 351 or MCDB 310 or BIOLCHEM 415, (completed with a minimum grade of C- or better). Consent of instructor required. (Prerequisites enforced at registration.) (4). (BS). May not be repeated for credit. W.

**CHEM 453. Biophysical Chemistry I: Thermodynamics and Kinetics**

CHEM 260 (or CHEM 261 and CHEM 330), CHEM 451, PHYSICS 240, and MATH 215 or CHEM 262. (3). (BS). May not be repeated for credit. No credit granted to those who have completed or are enrolled in CHEM 463. F.

**CHEM 454 / BIOPHYS 454. Biophysical Chemistry II: Macromolecular Structure and Dynamics**

CHEM 453 or 463, and CHEM 451/452 or equivalent. (3). (BS). May not be repeated for credit. W.

**CHEM 455. Special Topics in Biochemistry - Nucleic Acids**

CHEM 351, BIOLCHEM 415, MCDB 310 (or equivalent). (3). (BS). May not be repeated for credit.

**CHEM 461. Physical Chemistry I**

CHEM 260 or 370 or BIOPHYS 370 or PHYSICS 370; and PHYSICS 240 or 235; and MATH 215 or CHEM 262. Should be elected concurrently with CHEM 462. (3). (BS). May not be repeated for credit. F.

**CHEM 462. Computational Chemistry Laboratory**

MATH 215, and prior or concurrent enrollment in CHEM 461. (1). (BS). May not be repeated for credit. F.

**CHEM 463. Physical Chemistry II**

CHEM 461/462. (3). (BS). May not be repeated for credit. No credit granted to those who have completed or are enrolled in CHEM 453. W.

**CHEM 465. Special Topics in Physical Chemistry**

CHEM 461 or equivalent course in quantum mechanics, CHEM 262 or MATH 215/216 or equivalent. (3). (BS). May not be repeated for credit.

**CHEM 467 / CLIMATE 467 / EARTH 465 / ENSCEN 467 / ENVIRON 467. Biogeochemical Cycles**

MATH 116, CHEM 210, and PHYSICS 240 (or 260). (3). (BS). May not be repeated for credit. F, W.

**CHEM 474. Environmental Chemistry**

CHEM 260 and (CHEM 241 or CHEM 245). (3). (BS). May not be repeated for credit.

**CHEM 482. Synthesis and Characterization**

CHEM 215/216. Prior or concurrent enrollment in CHEM 302 or CHEM 303. (3). (BS). May not be repeated for credit.

**CHEM 483. Advanced Methods in Physical Analysis**

CHEM 447 and 461/462; and concurrent enrollment in CHEM 463. (3). (BS). May not be repeated for credit.

**CHEM 498. Undergraduate Honors Thesis in Biochemistry**

Consent of instructor required. CHEM 398 and permission of instructor. (1). (BS). (INDEPENDENT). May not be repeated for credit. Continuing Course. Y grade can be reported at end of the first-term to indicate work in progress. At the end of the second term, the final grade is posted for both term's elections. To be elected in the term in which an Honors student presents a thesis.

**CHEM 499. Undergraduate Thesis**

Consent of instructor required. CHEM 399 and permission of instructor. (1). (BS). (INDEPENDENT). May not be repeated for credit. Continuing Course. Y grade can be reported at end of the first-term to indicate work in progress. At the end of the second term, the final grade is posted for both term's elections. To be elected in the term in which an Honors student presents a thesis.

**CHEM 507. Inorganic Chemistry**

CHEM 461. (3). (BS). May not be repeated for credit. F.

**CHEM 511 / MATSCIE 510. Materials Chemistry**

CHEM 461, BIOLCHEM 415, CHEM 430; and permission of course director. (3). (BS). May not be repeated for credit.

**CHEM 520 / BIOPHYS 520. Methods of Biophysical Chemistry**  
CHEM 463, BIOLCHEM 415, or CHEM 420; permission of course director. (3). (BS). May not be repeated for credit.

**CHEM 521 / BIOPHYS 521. Principles of Biophysical Chemistry**  
CHEM 461, BIOLCHEM 415, and CHEM 430; and permission of course director. (3). (BS). May not be repeated for credit.

**CHEM 538 / MACROMOL 538. Organic Chemistry of Macromolecules**  
CHEM 215/216, and CHEM 230 or 260. (3). (BS). May not be repeated for credit. W.

**CHEM 540. Organic Principles**  
CHEM 312 and 461. (3). (BS). May not be repeated for credit.

**CHEM 541. Advanced Organic Chemistry**  
CHEM 540. (3). (BS). May not be repeated for credit. W.

**CHEM 542. Applications of Physical Methods to Organic Chemistry**  
CHEM 260, 241/242, and 312. (3). (BS). May not be repeated for credit.

**CHEM 570. Molecular Physical Chemistry**  
(3). (BS). May not be repeated for credit.

**CHEM 575. Chemical Thermodynamics**  
CHEM 461. (3). (BS). May not be repeated for credit.

**CHEM 580. Molecular Spectra and Structure**  
CHEM 570 or permission of instructor. (3). (BS). May not be repeated for credit. W.

**CHEM 673 / BIOLCHEM 673. Kinetics and Mechanism**  
BIOLCHEM 550, CHEMBIO 501, or equivalent, undergrad calculus. Physical Chemistry is recommended. (2). (BS). May not be repeated for credit.

## Courses in LSA Classical Studies

### Classical Archaeology (CLARCH)

**CLARCH 103. Great Discoveries in Archaeology**  
(3). (HU). May not be repeated for credit.

**CLARCH 104. Ancient Cities**  
(3 - 4). (HU). May not be repeated for credit.

**CLARCH 220 / HISTART 220. Great Buildings of Ancient Greece and Rome**  
(4; 3 in the half-term). (HU). May not be repeated for credit.

**CLARCH 221 / HISTART 221. Introduction to Greek Archaeology**  
(4; 3 in the half-term). (HU). May not be repeated for credit. F.

**CLARCH 222 / HISTART 222. Introduction to Roman Archaeology**  
(4; 3 in the half-term). (HU). May not be repeated for credit. W.

**CLARCH 223 / CLCIV 223. Greeks and Barbarian**  
(4). (HU). (R&E). May not be repeated for credit.

**CLARCH 323. Introduction to Field Archaeology**  
(4; 3 in the half-term). (HU). May not be repeated for credit.

**CLARCH 327 / CLCIV 327 / NEAREAST 355 / RELIGION 326. Jews in the Roman Mediterranean: Archaeology, Religion, and Culture**  
(3). (ID). May not be repeated for credit.

**CLARCH 350. Topics in Classical Archaeology**  
CLARCH 221, 222, or 323. (3). (HU). May be repeated for a maximum of 12 credits.

**CLARCH 375. Engaging Antiquity: Heritage, Museums, Media, Tourism, and Communities**  
(3). (HU). May not be repeated for credit.

**CLARCH 380 / HISTART 380. Minoan and Mycenaean Archaeology**  
Consent of instructor required. Upperclass standing, CLARCH/HISTART 221 and 222, and permission of instructor. (3). May not be repeated for credit.

**CLARCH 382 / CLCIV 382. Food in the Ancient World: Subsistence and Symbol**  
(3). (HU). May not be repeated for credit.

**CLARCH 389 / CLCIV 379 / HISTART 389. Pompeii**  
(3 - 4). (HU). May not be repeated for credit.

**CLARCH 420 / HISTART 430. Greece before History: The Art and Archaeology of Greek Lands ca 3500 to 700 BCE**  
(3). May not be repeated for credit.

**CLARCH 424 / HISTART 424. Archaeology of the Roman Provinces**  
Upperclass standing, and CLARCH/HISTART 221 or 222. (3). May not be repeated for credit.

**CLARCH 425. Hellenistic and Republican Roman Architecture**  
CLARCH 222. (3). May not be repeated for credit. Rackham credit requires additional work.

**CLARCH 433 / HISTART 433. Greek Sculpture**  
Upperclass standing, some preparation in Classical Civilization, Classical Archaeology or History of Art. (3; 2 in the half-term). May not be repeated for credit. Rackham credit requires additional work.

**CLARCH 435 / HISTART 435. The Art and Archaeology of Asia Minor**  
Upperclass standing. (3). May not be repeated for credit.

**CLARCH 439 / HISTART 439. Greek Vase Painting**

*Upperclass standing. (3; 2 in the half-term). May not be repeated for credit.*

**CLARCH 440 / HISTART 440. Cities and Sanctuaries of Classical Greece**  
*Upperclass standing, and a course in archaeology. (3; 2 in the half-term). May not be repeated for credit.*

**CLARCH 443 / HISTART 443. The Art and Archaeology of Greek Colonization**  
*Upperclass standing and CLARCH/HISTART 221. (3). May not be repeated for credit.*

**CLARCH 482. Ceramic Analysis**  
*(3). May not be repeated for credit. Rackham credit requires additional work.*

**CLARCH 495. Senior Honors Research**  
*Consent of instructor required. Upperclass standing. (1 - 3). (INDEPENDENT). May be repeated for a maximum of 6 credits.*

**CLARCH 496. Practicum in Museum Studies**  
*Junior or seniors, or permission of instructor. (1 - 3). (EXPERIENTIAL). May be repeated for a maximum of 6 credits.*

**CLARCH 497. Practicum in Field Archaeology**  
*Junior or seniors. (1 - 3). (EXPERIENTIAL). May be repeated for a maximum of 6 credits.*

**CLARCH 499. Supervised Reading**  
*Consent of instructor required. (1 - 3). (INDEPENDENT). May be repeated for credit. May be elected more than once in the same term. F, W, Sp, Su.*

**CLARCH 534 / HISTART 534. Ancient Painting**  
*Upperclass standing, HISTART 101 and either HISTART/CLARCH 221 or 222. (3). May not be repeated for credit. Rackham credit requires additional work.*

**CLARCH 536 / HISTART 536. Hellenistic and Roman Sculpture**  
*HISTART 101; one of CLARCH 221 or 222 or HISTART 221 or 222; and Upperclass standing. (3). May not be repeated for credit. Rackham credit requires additional work.*

## Classical Civilization (CLCIV)

**CLCIV 101. Classical Civilization I: The Ancient Greek World (in English)**  
*(4). (FYWR). May not be repeated for credit. No credit granted to those who have completed or are enrolled in GTBOOKS 191 or 201. F.*

**CLCIV 102. Classical Civilization II: The Ancient Roman World (in English)**  
*(4). (HU). May not be repeated for credit. W.*

**CLCIV 120. First-year Seminar in Classical Civilization (Humanities)**

*Enrollment restricted to first-year students, including those with sophomore standing. (3). (HU). May be repeated for a maximum of 6 credits.*

**CLCIV 121. First-year Seminar in Classical Civilization (Composition)**  
*Enrollment restricted to first-year students, including those with sophomore standing. (4). (FYWR). May not be repeated for credit.*

**CLCIV 125. Mini Course in Classical Civilization**  
*(1). (HU). May be repeated for a maximum of 3 credits. May be elected more than once in the same term.*

**CLCIV 126. From Humanitas to Humanities**  
*(1). (HU). May not be repeated for credit.*

**CLCIV 157 / PHIL 157. Introduction to Ancient Philosophy**  
*(3). (HU). May not be repeated for credit.*

**CLCIV 217. Minicourse on the Origins of Medical Terminology**  
*(1). May not be repeated for credit.*

**CLCIV 220. Music in the Ancient World**  
*CLCIV 101 or CLCIV 102. (3). (HU). May not be repeated for credit.*

**CLCIV 223 / CLARCH 223. Greeks and Barbarian**  
*(4). (HU). (R&E). May not be repeated for credit.*

**CLCIV 253. The Mediterranean: Classical Studies**  
*(3). (HU). May not be repeated for credit.*

**CLCIV 257 / HISTORY 257 / JUDAIC 257. Ancient Law**  
*(4; 3 in the half-term). (HU). May not be repeated for credit.*

**CLCIV 260. Sex and Gender in the Ancient World**  
*(3). (HU). May not be repeated for credit.*

**CLCIV 277 / ENVIRON 277 / HISTORY 277. Environmental History of the Ancient Mediterranean**  
*(3). (HU). May not be repeated for credit.*

**CLCIV 302 / HISTORY 302. The Roman Republic**  
*(4). (HU). May not be repeated for credit.*

**CLCIV 303 / HISTORY 303 / WOMENSTD 303. Roman Women**  
*(3). (HU). May not be repeated for credit.*

**CLCIV 327 / CLARCH 327 / NEAREAST 355 / RELIGION 326. Jews in the Roman Mediterranean: Archaeology, Religion, and Culture**  
*(3). (ID). May not be repeated for credit.*

**CLCIV 328. Ancient Languages and Scripts**  
*(3). (HU). May not be repeated for credit.*

**CLCIV 339 / ASIAN 365 / HISTORY 339. Doctors in the Ancient World: China, Greece, and Rome**

(3). (HU). May not be repeated for credit.

**CLCIV 342. Sexuality and Sexual Stereotype in Greek and Roman Culture**

(3 - 4). (HU). May not be repeated for credit.

**CLCIV 345. Slavery and Ethnicity in the Ancient World**

Junior standing; general familiarity with American history. (3). (HU). (R&E). May not be repeated for credit.

**CLCIV 350. Topics in Classical Civilization**

CLCIV 101 and 102. (3). (HU). May be repeated for a maximum of 6 credits.

**CLCIV 354 / NEAREAST 354 / RELIGION 353. Ancient Jerusalem: Archaeology, Religion, and Culture**

(3). (ID). May not be repeated for credit.

**CLCIV 371. Sport in the Ancient Greek World**

(4). (HU). May not be repeated for credit.

**CLCIV 372. Sports and Daily Life in Ancient Rome**

(4; 3 in the half-term). (HU). May not be repeated for credit.

**CLCIV 375. War in Greek and Roman Civilization**

(4). (HU). May not be repeated for credit.

**CLCIV 379 / CLARCH 389 / HISTART 389. Pompeii**

(3 - 4). (HU). May not be repeated for credit.

**CLCIV 380 / HISTORY 381 / JUDAIC 380 / RELIGION 382. Ancient Jewish History to 638 CE: From Israelite Origins to Islamic Conquest**

(3). (ID). May not be repeated for credit. No credit granted for students who have taken both ACABS 322 and ACABS 326.

**CLCIV 381 / RELIGION 381. Magic and Witchcraft**

(4). (HU). May not be repeated for credit.

**CLCIV 382 / CLARCH 382. Food in the Ancient World: Subsistence and Symbol**

(3). (HU). May not be repeated for credit.

**CLCIV 385. Greek Mythology**

(4). (HU). May not be repeated for credit.

**CLCIV 388 / PHIL 388. History of Philosophy: Ancient**

One philosophy course with a grade of at least a C-. (Prerequisites enforced at registration.) Knowledge of Greek or Latin is not required. (4; 2 in the half-term). (HU). May not be repeated for credit.

**CLCIV 392 / HISTORY 292. Ancient Medicine in Greece & Rome**

(4). (HU). May not be repeated for credit.

**CLCIV 393. Plato's Dialogues in English**

(3). (HU). May not be repeated for credit.

**CLCIV 456. Egypt after the Pharaohs: Public and Private Life in an Ancient Multicultural Society**

CLCIV 101, or HISTORY 200 or 201, or an introductory class in Egyptian archaeology or history; or CLCIV 102, or CLARCH 221 or 222, or HISTART 221 or 222. (3). May not be repeated for credit.

**CLCIV 464. The Ancient Epic**

(3; 2 in the half-term). May not be repeated for credit.

**CLCIV 466 / RELIGION 468. Greek Religion**

(3; 2 in the half-term). May not be repeated for credit.

**CLCIV 468. Greeks, Romans, and Egyptians**

(3). May not be repeated for credit.

**CLCIV 479. Socratic Tradition of Conscientious Objection**

Consent of instructor required. Junior or Senior standing. (3). May not be repeated for credit.

**CLCIV 480. Studying Antiquity**

Open only to majors in Classical Civilization, Classical Archaeology, Classical Language and Literature, Ancient Greek, Latin, and Modern Greek. (Prerequisites enforced at registration.) (3). May be repeated for a maximum of 6 credits. May be elected more than once in the same term.

**CLCIV 483 / NEAREAST 437 / RELIGION 488. Christianity and Hellenistic Civilizations**

(3). May not be repeated for credit.

**CLCIV 495. Senior Honors Research**

Consent of instructor required. Upperclass standing. (1 - 3). (INDEPENDENT). May be repeated for a maximum of 6 credits.

**CLCIV 499. Supervised Reading**

Permission of Instructor. (1 - 3). (INDEPENDENT). May be repeated for a maximum of 6 credits.

**Greek (GREEK)****GREEK 101. Elementary Greek**

(4). May not be repeated for credit. Graduate students should elect GREEK 502. F.

**GREEK 102. Elementary Greek**

GREEK 101. (Prerequisites enforced at registration.) (4). May not be repeated for credit. No credit granted to those who have completed or are enrolled in GREEK 103 or 503. Graduate students should elect GREEK 503. W.

**GREEK 103. Intensive Elementary Greek I**

(6). May not be repeated for credit. No credit granted to those who have completed or are enrolled in GREEK 101 or 102, or any subsequent GREEK class. Graduate students should elect as GREEK 504.

**GREEK 301. Second-Year Greek**

GREEK 102 or 103. (Prerequisites enforced at registration.) (4). May not be repeated for credit. No credit granted to those who have completed or are enrolled in GREEK 507. The language requirement is satisfied with successful completion of both GREEK 301 AND 302. Graduate students should elect GREEK 507. F.

**GREEK 302. Second-Year Greek**

GREEK 102 or 103. (4). (Lang Req). May not be repeated for credit. No credit granted to those who have completed or are enrolled in GREEK 508. Graduate students should elect as GREEK 508. The language requirement is satisfied with successful completion of both GREEK 301 AND 302. W.

**GREEK 307 / NESLANG 307. The Synoptic Gospels: Matthew, Mark and Luke**

GREEK 101 and 102; and permission of instructor. (4). May not be repeated for credit. Taught in Greek. The language requirement is satisfied with successful completion of both GREEK 307 AND 308.

**GREEK 308 / NESLANG 308. The Acts of the Apostles**

GREEK 101 and 102; and permission of instructor. (4). (Lang Req). May not be repeated for credit. Taught in Greek. The language requirement is satisfied with successful completion of both GREEK 307 AND 308.

**GREEK 401. Readings in Classical Greek Prose**

GREEK 302. (3). May be repeated for a maximum of 9 credits.

**GREEK 402. Greek Drama**

GREEK 302. (3). May be repeated for a maximum of 9 credits. W.

**GREEK 463. Plato: Dialogues**

GREEK 401. (3). May not be repeated for credit.

**GREEK 470. Topics in Greek Literature**

Consent of department required. (3). May be elected twice for credit. Rackham credit requires additional work.

**GREEK 473 / NESLANG 470. Advanced Koine**

Two years of Greek, one term of New Testament Greek (300 level or equivalent). (3). May not be repeated for credit.

**GREEK 476. Advanced Greek Reading**

GREEK 401/402. (3). May be elected twice for credit. Rackham credit requires additional work.

**GREEK 495. Senior Honors Research**

Consent of instructor required. Upperclass standing. (1 - 3). (INDEPENDENT). May be repeated for a maximum of 6 credits.

**GREEK 499. Supervised Reading**

Consent of instructor required. (1 - 4). (INDEPENDENT). May be repeated for credit. May not be included in a concentration plan in Greek Language and Literature or Classical Languages and Literatures. Continuing Course. Y grade can be reported at end of the first-term to indicate work in progress. At the end of the second term, the final grade is posted for both term's elections. F, W, Sp, Su.

**GREEK 506. Advanced Greek Composition**

GREEK 410. (3). May not be repeated for credit.

**GREEK 556. Greek Philosophical Literature I**

Graduate standing in Classical Studies or permission of instructor. (3). May not be repeated for credit.

**Modern Greek (GREEKMOD)****GREEKMOD 101. Elementary Modern Greek**

(4). May not be repeated for credit. No credit granted to those who have completed GREEKMOD 500 or 501.

**GREEKMOD 102. Elementary Modern Greek, II**

GREEKMOD 101. (4). May not be repeated for credit. No credit granted to those who have completed GREEKMOD 500 or 502.

**GREEKMOD 201. Second Year Modern Greek I**

GREEKMOD 102. (4). May not be repeated for credit. No credit granted to those who have completed GREEKMOD 503.

**GREEKMOD 202. Second Year Modern Greek, II**

GREEKMOD 201. (4). (Lang Req). May not be repeated for credit. No credit granted to those who have completed GREEKMOD 504.

**GREEKMOD 214. Introduction to Modern Greek Culture**

(3). (SS). May not be repeated for credit.

**GREEKMOD 301. Intermediate Modern Greek I**

GREEKMOD 202. (3). May not be repeated for credit. No credit granted to those who have completed GREEKMOD 505.

**GREEKMOD 302. Intermediate Modern Greek II**

GREEKMOD 202. (3). May not be repeated for credit. No credit granted to those who have completed GREEKMOD 506.

**GREEKMOD 318 / AMCULT 318. Greek-American Culture**

(3). (R&E). May not be repeated for credit.

**GREEKMOD 325. Athens, Present and Past**

(3). (HU). May not be repeated for credit.

**GREEKMOD 330. Translating Modern Greek, Reporting the World**

Third-semester Modern Greek or the equivalent, demonstrated through placement testing. (3). (HU). May not be repeated for credit.

**GREEKMOD 340 / COMPLIT 340. Travels to Greece**  
(3). (HU). May not be repeated for credit.

**GREEKMOD 350. Topics in Modern Greek**  
(3). (HU). May be elected twice for credit. May be elected more than once in the same term.

**GREEKMOD 399. Directed Study**  
Consent of instructor required. (1 - 4). (INDEPENDENT). May not be repeated for credit.

**GREEKMOD 495. Senior Honors Research**  
Consent of instructor required. Junior or senior standing. (1 - 3). (INDEPENDENT). May be repeated for a maximum of 6 credits.

**GREEKMOD 499. Supervised Reading**  
Permission of instructor. (1 - 3). (INDEPENDENT). May be repeated for a maximum of 9 credits.

## Great Books Program (GTBOOKS)

**GTBOOKS 191. Great Books**  
First-Year students in the Honors Program. (4). (HU). (FYWR). May not be repeated for credit. No credit granted to those who have completed or are enrolled in GTBOOKS 201 or CLCIV 101.

**GTBOOKS 192. Great Books**  
Freshman honors program. (4). (HU). May not be repeated for credit. W.

**GTBOOKS 201. Great Books of the Ancient World**  
(4). (HU). May not be repeated for credit. No credit granted to those who have completed or are enrolled in GTBOOKS 191 or CLCIV 101.

**GTBOOKS 212 / COMPLIT 222. Great Books in World Literatures**  
(3). (HU). May not be repeated for credit.

**GTBOOKS 246 / ISLAM 219 / NEAREAST 219. Great Books of the Middle East**  
(3). (HU). May not be repeated for credit.

**GTBOOKS 331 / SPANISH 331. Great Books of Spain and Latin America**  
Open to students at all levels. (3). (HU). May not be repeated for credit.

## Latin (LATIN)

**LATIN 101. Elementary Latin**  
(4). May not be repeated for credit. Credit is granted for no more than two courses among LATIN 101, 102 and 103. No credit granted to those who have completed or are enrolled in LATIN 504.

**LATIN 102. Elementary Latin**

**LATIN 101.** (Prerequisites enforced at registration.) Restricted by placement exam or permission of Elementary Latin Program coordinator. (4). May not be repeated for credit. Credit is granted for no more than two courses among LATIN 101, 102 and 103. No credit granted to those who have completed or are enrolled in LATIN 504.

**LATIN 103. Review Latin**  
Restricted by placement exam or permission of Elementary Latin Program coordinator. (4). May not be repeated for credit. Credit is granted for no more than two courses among LATIN 101, 102 and 103. No credit granted to those who have completed or are enrolled in LATIN 504.

**LATIN 195. Intensive Latin I**  
(8). May not be repeated for credit. No credit granted to those who have completed or are enrolled in LATIN 101, 102, 103, or RCLANG 195.

**LATIN 231. Roman Kings and Emperors**  
LATIN 102, 103, or 195. (Prerequisites enforced at registration.) Restricted by placement exam or permission of Elementary Latin Program coordinator. (4). May not be repeated for credit. No credit granted to those who have completed or are enrolled in LATIN 295.

**LATIN 232. Vergil, Aeneid**  
LATIN 231. (Prerequisites enforced at registration.) Restricted by placement exam or permission of Elementary Latin Program coordinator. (4). (Lang Req). May not be repeated for credit. No credit granted to those who have completed or are enrolled in LATIN 295.

**LATIN 233. Late Latin**  
LATIN 231. (Prerequisites enforced at registration.) Restricted by placement exam or permission of Elementary Latin Program coordinator. (4). (Lang Req). May not be repeated for credit.

**LATIN 295. Intensive Latin II**  
LATIN 102, 103, or 193/504, or RCLANG 195. (8). (Lang Req). May not be repeated for credit.

**LATIN 301. Intermediate Latin I**  
LATIN 194 or 232. (3; 2 in the half-term). (HU). May not be repeated for credit.

**LATIN 325 / RCLANG 325. Readings in Latin Drama: From Text to Performance**  
One of RCLANG 295, LATIN 194, 195, 232, or 233, or permission of instructor. (4). May be elected twice for credit.

**LATIN 401. Republican Prose**  
LATIN 301 or 302 or permission of instructor. (3; 2 in the half-term). May be repeated for a maximum of 9 credits. F.

**LATIN 402. Imperial Prose**  
LATIN 301 or 302 or permission of instructor. (3; 2 in the half-term). May be repeated for a maximum of 9 credits. W.

**LATIN 403. Elementary Latin Composition**

*LATIN 301. (3). May not be repeated for credit.*

**LATIN 409. Augustan Poetry**

*LATIN 301 or 302 or permission of instructor. (3; 2 in the half-term). May be repeated for a maximum of 9 credits.*

**LATIN 410. Poetry of the Republic or Later Empire**

*LATIN 301 or 302 or permission of instructor. (3; 2 in the half-term). May be repeated for a maximum of 9 credits. W.*

**LATIN 421 / EDCURINS 421. Teaching of Latin**

*Junior standing in Latin and permission of instructor. (3; 2 in the half-term). May not be repeated for credit. F, W, Sp.*

**LATIN 426. Practicum**

*Consent of instructor required. Junior or senior standing. (1). (EXPERIENTIAL). May be repeated for a maximum of 3 credits. F, W, Su. Offered mandatory credit/no credit.*

**LATIN 436 / MEMS 441. Postclassical Latin II**

*Two years of college Latin. (3; 2 in the half-term). May not be repeated for credit.*

**LATIN 441. Vergil, Aeneid**

*(3; 2 in the half-term). May not be repeated for credit.*

**LATIN 442. Didactic Poetry**

*At least one intermediate LATIN course (LATIN 401, 402, 409, 410). (3). May not be repeated for credit. Rackham credit requires additional work.*

**LATIN 443. Latin Elegy**

*At least one intermediate LATIN course (LATIN 401, 402, 409, 410). (3). May not be repeated for credit. No credit granted to those who have completed or are enrolled in LATIN 551. Rackham credit requires additional work.*

**LATIN 444. Ovid**

*At least one intermediate LATIN course (LATIN 401, 402, 409, 410). (3; 2 in the half-term). May not be repeated for credit.*

**LATIN 449. Roman Satire**

*At least one intermediate LATIN course (LATIN 401, 402, 409, 410). (3). May not be repeated for credit.*

**LATIN 454. Roman Comedy**

*At least one intermediate LATIN course (LATIN 401, 402, 409, 410). (3). May not be repeated for credit. Rackham credit requires additional work.*

**LATIN 463. Cicero Orations**

*At least one intermediate LATIN course (LATIN 401, 402, 409, 410). (3). May not be repeated for credit. No credit granted to those who have*

*completed or are enrolled in LATIN 562.*

**LATIN 464. Cicero: Letters**

*At least one intermediate LATIN course (LATIN 401, 402, 409, 410). (3). May not be repeated for credit. No credit granted to those who have completed or are enrolled in LATIN 511.*

**LATIN 469. Augustine the Philosopher**

*LATIN 402. (3). May not be repeated for credit. Rackham credit requires additional work.*

**LATIN 471. Cicero: Philosophical Works**

*At least one intermediate LATIN course (LATIN 401, 402, 409, 410). (3). May not be repeated for credit. No credit granted to those who have completed or are enrolled in LATIN 558.*

**LATIN 473. The Age of Nero**

*At least one intermediate LATIN course (LATIN 401, 402, 409, 410). (3; 2 in the half-term). May not be repeated for credit.*

**LATIN 495. Senior Honors Research**

*Consent of instructor required. Upperclass standing. (1 - 3). (INDEPENDENT). May be repeated for a maximum of 6 credits.*

**LATIN 499. Latin: Supervised Reading**

*Consent of instructor required. (1 - 4). (INDEPENDENT). May be repeated for credit. May not be included in a concentration plan in Greek Language and Literature or Classical Languages and Literatures. F, W, Sp, Su.*

**LATIN 504. Intensive Latin**

*Consent of instructor required. (6). May not be repeated for credit. No credit granted to those who have completed LATIN 102, 193, or 502. Sp.*

**LATIN 506. Advanced Latin Composition**

*LATIN 403. (3). May not be repeated for credit. F.*

**LATIN 599. Supervised Reading in Latin Literature**

*Consent of instructor required. (1 - 4). (INDEPENDENT). May not be repeated for credit. F, W, Sp, Su.*

## **Courses in LSA Communication Studies**

### **Communication Studies (COMM)**

**COMM 101. The Mass Media**

*First- and second-year students. (Prerequisites enforced at registration.) (4). (SS). May not be repeated for credit.*

**COMM 102. Media Processes and Effects**

*First- and second-year students. (Prerequisites enforced at*



registration.) (4). (SS). May not be repeated for credit.

**COMM 159. First-year Seminar in Media Issues**

First-year students only. (Prerequisites enforced at registration.) (3). (SS). May not be repeated for credit. Credits do not count toward the Communication Studies major requirements.

**COMM 221. Quantitative Skills for Communication Studies**

COMM 102 strongly recommended. (4). (SS). (QR/1). May not be repeated for credit. No credit for students who have completed COMM 121.

**COMM 222. Media Analysis: Concepts and Methods**

COMM 101 strongly recommended. (4). (SS). May not be repeated for credit. No credit for students who have completed COMM 122.

**COMM 251 / SAC 324. Understanding Media Industries**

(4). (SS). May not be repeated for credit. No credit granted to those who have completed COMM 351.

**COMM 261. Views on the News: What Shapes our Media Content**

COMM 102 (completed with a minimum grade of C or better). (Prerequisites enforced at registration.) (4). (SS). May not be repeated for credit.

**COMM 271. Communication Revolutions**

COMM 101 (completed with a minimum grade of C or better). (Prerequisites enforced at registration.) (4). (HU). May not be repeated for credit.

**COMM 281. Media Psychology**

COMM 102 (completed with a minimum grade of C or better). (Prerequisites enforced at registration.) (4). (SS). May not be repeated for credit.

**COMM 305. Survey of Media Topics**

COMM 101 and COMM 102 strongly recommended. (3 - 4). May be repeated for a maximum of 8 credits. May be elected more than once in the same term.

**COMM 310. Representation of Black Life and Culture in Global Perspective**

(4). (HU). May not be repeated for credit.

**COMM 313. Behind the Digital Screen**

(4). May not be repeated for credit.

**COMM 316 / SI 316. Designing and Analyzing Social Media Feeds**

May not be repeated for credit.

**COMM 317. Designing Persuasive Communication**

COMM 261 or COMM 281 strongly recommended. (3). May not be repeated for credit. No credit granted to those who have completed COMM 462 or MKT 411.

**COMM 318 / PSYCH 318. Media and Violence**

COMM 281 strongly recommended. (4). May not be repeated for credit. No credit granted to students who have completed COMM/PSYCH 481, Media & Violence (Crse ID #019987).

**COMM 321. Undergraduate Internship**

Consent of instructor required. Junior standing, concentration in Communication Studies, and permission of instructor. Internship credit is not retroactive and must be prearranged. (1 - 3). (EXPERIENTIAL). May be repeated for a maximum of 6 credits. May not be used to satisfy Communication Studies electives in a Communication Studies major. Offered mandatory credit/no credit.

**COMM 322. Faculty Directed Undergraduate Research Practicum**

Consent of instructor required. (1 - 3). May be repeated for a maximum of 6 credits. Maximum of 3 credits from COMM 322 and/or COMM 441/442 may be used toward the Communication Studies concentration requirements. A maximum of three credits from COMM 322, 441, or 442 may be counted toward the concentration requirements.

**COMM 325. Media and Globalization**

COMM 101 with a minimum grade of C or better. (Prerequisites enforced at registration.) COMM 251 strongly recommended. (4). May not be repeated for credit.

**COMM 326 / AMCULT 326. American Magazines**

(4; 3 in the half-term). (HU). May not be repeated for credit. No credit granted to students who have completed AMCULT 250.

**COMM 329 / POLSCI 329. Mass Media and Political Behavior**

(4). (SS). May not be repeated for credit.

**COMM 334 / AMCULT 334 / SAC 334. Race, Gender, Sexuality and U.S. Culture in Video Games**

(4; 3 in the half-term). May not be repeated for credit.

**COMM 348. Media and the Body**

(4). May not be repeated for credit.

**COMM 350. The Rise and Demise of Mass Culture**

COMM 101 with minimum grade of C or better. (Prerequisites enforced at registration.) (4). May not be repeated for credit.

**COMM 362. Digital Media Foundations**

(4). May not be repeated for credit.

**COMM 365. Visual Culture and Visual Literacy**

COMM 101, with a minimum grade of C or better. (Prerequisites enforced at registration.) (4). May not be repeated for credit.

**COMM 371. Media, Culture, and Society**

COMM 101 with a minimum grade of C or better. (Prerequisites enforced at registration.) (4). May not be repeated for credit.

**COMM 380. Persuasion, Communication and Campaigns**

COMM 102 with a minimum grade of C or better. (Prerequisites enforced at registration.) (4). May not be repeated for credit.

**COMM 404. Special Topics in Mass Media and Mass Communication**

COMM 101 strongly recommended. (3). May be repeated for a maximum of 6 credits. May be elected more than once in the same term.

**COMM 405. Seminar in Mass Media and Mass Communication**

COMM 101 strongly recommended. (3). May be repeated for a maximum of 6 credits. May be elected more than once in the same term.

**COMM 408. Special Topics in Media Effects**

COMM 102 strongly recommended. (3). May be repeated for a maximum of 6 credits. May be elected more than once in the same term.

**COMM 409. Seminar in Media Effects**

COMM 102 strongly recommended. (3). May be repeated for a maximum of 6 credits. May be elected more than once in the same term.

**COMM 410. The Internet and Political Communication**

COMM 102 and COMM 329 strongly recommended. (3). May not be repeated for credit.

**COMM 413 / ENVIRON 413. Environmental Communication**

(3). May not be repeated for credit.

**COMM 418. Designing Web Research**

COMM 271 or COMM 315 strongly recommended. (3). May not be repeated for credit.

**COMM 421. Media Law and Policy**

COMM 251 strongly recommended. (3). May not be repeated for credit. No credit granted to those who have completed COMM 452.

**COMM 423. Computer Mediated Communication**

COMM 101 and COMM 102 strongly recommended. (3). May not be repeated for credit.

**COMM 424. Race, Gender and New Media**

COMM 271 and COMM 315 strongly recommended. (3). May not be repeated for credit.

**COMM 425. Internet, Society and the Law**

COMM 251 or COMM 271 strongly recommended. (3). May not be repeated for credit. No credit granted to those who have completed COMM 466.

**COMM 428. Gender, Media and the Law**

Not available to students who have completed COMM 459 (crse ID#19977), Topic: Gender and Law (Topic #11). (Prerequisites enforced

at registration.) COMM 251 or COMM 271 strongly recommended. (3). May not be repeated for credit.

**COMM 429 / WOMENSTD 429. Sexual Identities and the Media**

(3). May not be repeated for credit.

**COMM 430. The Media in U.S. History**

COMM 271 strongly recommended. (3). May not be repeated for credit. No credit granted to those who have completed COMM 453.

**COMM 431. Supreme Court News Coverage**

COMM 261 strongly recommended. (3). May not be repeated for credit.

**COMM 432. Foreign News Coverage**

COMM 261 strongly recommended. (3). May not be repeated for credit.

**COMM 435. News Media Ethics**

COMM 261 strongly recommended. (3). May not be repeated for credit.

**COMM 439. Seminar in Journalistic Performance**

COMM 261 strongly recommended. (3). May be repeated for a maximum of 6 credits. May be elected more than once in the same term.

**COMM 440. Global Iconic Events**

COMM 101 with a minimum grade of C or better. (Prerequisites enforced at registration.) (3). May not be repeated for credit.

**COMM 441. Independent Reading**

Consent of department required. (3 - 4). (INDEPENDENT). May be repeated for a maximum of 8 credits. COMM 441 and 442 may be repeated for a combined total of eight credits. A maximum of 3 credits from COMM 322 and/or COMM 441/442 may be used toward the Communication Studies major requirements. Offered mandatory credit/no credit.

**COMM 442. Independent Research**

Consent of department required. (3 - 4). (INDEPENDENT). May be repeated for a maximum of 8 credits. COMM 441 and 442 may be repeated for a combined total of eight credits. A maximum of 3 credits from COMM 322 and/or COMM 441/442 may be used toward the Communication Studies major requirements. Offered mandatory credit/no credit.

**COMM 445. Music and Mediated Identities**

COMM 101 (completed with a minimum grade of C or better). (Prerequisites enforced at registration.) COMM 350 or 371 strongly recommended. (3). May not be repeated for credit.

**COMM 446. Reality and Television**

Not available to students who have completed COMM 468 (crse ID #022063), Topic: Television and Reality, (Topic #12). (Prerequisites

enforced at registration.) COMM 371 strongly recommended. (3). May not be repeated for credit.

**COMM 447. Women and Islam: The Politics of Representation**  
COMM 371 strongly recommended. (3). May not be repeated for credit.

**COMM 455. Global Visual Cultures**  
Declared Communication Studies seniors ONLY. (Prerequisites enforced at registration.) COMM 371 or COMM 365 strongly recommended. (3). May not be repeated for credit. No more than 3 credits from Comm 450-490.

**COMM 457. Citizenship after Television**  
Declared Communication Studies seniors ONLY. (Prerequisites enforced at registration.) COMM 251 or COMM 271 strongly recommended. (3). (R&E). May not be repeated for credit. No more than three credits can be elected from COMM 450-490.

**COMM 460. History of Technology and Modern Culture**  
Declared Communication Studies seniors ONLY. (Prerequisites enforced at registration.) COMM 271 or COMM 350 strongly recommended. (3). May not be repeated for credit. No more than three credits can be elected from COMM 450-490.

**COMM 461. Visuality and the New Media**  
Declared Communication Studies seniors ONLY. (Prerequisites enforced at registration.) COMM 365 strongly recommended. (3). May not be repeated for credit. No more than 3 credits from Comm 450-490.

**COMM 463. Communication and Political Representation**  
Declared Communication Studies seniors ONLY. (Prerequisites enforced at registration.) COMM 261 and COMM 329 strongly recommended. (3). May not be repeated for credit. No more than three credits from COMM 450-490.

**COMM 464. Social Consequences of Mobile Communication**  
Declared Communication Studies seniors ONLY. (Prerequisites enforced at registration.) COMM 251 and COMM 261 strongly recommended. (3). May not be repeated for credit. No more than three credits can be elected from COMM 450-490.

**COMM 465. Health Communication and Health Behavior Change**  
Declared Communication Studies seniors ONLY. (Prerequisites enforced at registration.) COMM 281 or 380 strongly recommended. (3). May not be repeated for credit. No more than three credits can be elected from COMM 450-490.

**COMM 466. Global Digital Politics**  
Declared Communication Studies seniors ONLY. (Prerequisites enforced at registration.) COMM 325 OR COMM 329 strongly recommended. (3). May not be repeated for credit. No more than 3 credits from Comm 450-490.

**COMM 467. Debating Politics and Science: Science, News, Public Opinion and Policy**

Declared Communication Studies seniors ONLY. (Prerequisites enforced at registration.) (3). May not be repeated for credit. No more than three credits from COMM 450-490.

**COMM 468. Political Misinformation and Misperceptions**  
Declared Communication Studies seniors ONLY. (Prerequisites enforced at registration.) COMM 329 strongly recommended. (3). May not be repeated for credit. No more than 3 credits can be elected from COMM 450-490.

**COMM 469. Play and Technology**  
Declared Communication Studies seniors ONLY. (Prerequisites enforced at registration.) (3). May not be repeated for credit. No more than 3 credits from Comm 450-490.

**COMM 470. Telling Our Own Stories: Minority Self-Representation in the Media**  
Declared Communication Studies seniors ONLY. (Prerequisites enforced at registration.) COMM 371 strongly recommended. (3). (R&E). May not be repeated for credit. No more than three credits can be elected from COMM 450-490.

**COMM 477. The Mass Media and Celebrity Culture**  
Declared Communication Studies seniors ONLY. (Prerequisites enforced at registration.) (3). May not be repeated for credit. No more than three credits from COMM 450-490.

**COMM 482. Children and the Media**  
Declared Communication Studies Seniors ONLY. (Prerequisites enforced at registration.) COMM 281 strongly recommended. (3). May not be repeated for credit. No more than three credits can be elected from COMM 450-490.

**COMM 483. Media and Intergroup Conflict**  
Declared Communication Studies seniors ONLY. (Prerequisites enforced at registration.) COMM 281 strongly recommended. (3). May not be repeated for credit. No more than three credits from COMM 450-490.

**COMM 487. African Americans in Popular Culture**  
Declared Communication Studies Seniors ONLY. (Prerequisites enforced at registration.) COMM 371 strongly recommended. (3). (R&E). May not be repeated for credit. No more than three credits can be elected from COMM 450-490.

**COMM 490. Capstone Seminars in Media Topics**  
Declared Communication Studies Seniors ONLY. (Prerequisites enforced at registration.) COMM 251, COMM 261, COMM 271 or COMM 281 strongly recommended. (3). May not be repeated for credit. No more than three credits can be elected from COMM 450-490.

**COMM 491. Senior Honors Seminar I**  
Consent of instructor required. Admission to Honors Program. (3). May not be repeated for credit. No more than 3 credits of COMM 491-492 may be included in a Communication concentration plan.

**COMM 492. Senior Honors Thesis**

Consent of instructor required. COMM 491 and permission of instructor. (3). (INDEPENDENT). May not be repeated for credit. No more than three credits of COMM 491-492 may be included in a communication studies concentration plan.

## Courses in LSA Comparative Literature

### Comparative Literature (COMPLIT)

**COMPLIT 100. Global X**

(3 - 4; 2 - 3 in the half-term). (HU). May be elected twice for credit.

**COMPLIT 122. Writing World Literatures**

(4). (FYWR). May not be repeated for credit.

**COMPLIT 140. First-Year Literary Seminar**

Enrollment restricted to first-year students, including those with sophomore standing. (3). (HU). May be repeated for a maximum of 6 credits.

**COMPLIT 141. Great Performances**

(4). (HU). May not be repeated for credit.

**COMPLIT 200. Translation Across Disciplines**

(3). May not be repeated for credit.

**COMPLIT 222 / GTBOOKS 212. Great Books in World Literatures**

(3). (HU). May not be repeated for credit.

**COMPLIT 240. Literature Across Borders**

(3; 2 in the half-term). (HU). May not be repeated for credit. This course may be counted toward the International Studies subplan in Comparative Culture and Identity. F.

**COMPLIT 241. Topics in Comparative Literature**

COMPLIT 240. (3; 2 in the half-term). (HU). May not be repeated for credit. W.

**COMPLIT 260. Europe and Its Others**

(3). (HU). May not be repeated for credit.

**COMPLIT 322. Translating World Literatures**

(3). (HU). May not be repeated for credit.

**COMPLIT 340 / GREEKMOD 340. Travels to Greece**

(3). (HU). May not be repeated for credit.

**COMPLIT 350. The Text and Its Cultural Context**

(3). (HU). May be repeated for a maximum of 6 credits.

**COMPLIT 364. Comparative Literary Movements and Periods**

(3). (HU). May be repeated for a maximum of 6 credits. May be elected more than once in the same term.

**COMPLIT 372. Literature and Identity**

(3). (HU). May be repeated for a maximum of 6 credits. May be elected more than once in the same term.

**COMPLIT 374. Literature and the Body**

(3 - 4). (HU). May be repeated for a maximum of 6 credits.

**COMPLIT 376. Literature and Ideas**

(3). (HU). May be repeated for a maximum of 6 credits. May be elected more than once in the same term.

**COMPLIT 382. Literature and the Other Arts**

(3). (HU). May be repeated for a maximum of 9 credits. May be elected more than once in the same term.

**COMPLIT 434. Comparative Studies in Poetry**

Junior standing. (3). May be repeated for a maximum of 6 credits.

**COMPLIT 438. Comparative Studies in Film**

Junior standing. (3). May be repeated for a maximum of 6 credits.

**COMPLIT 490. Comparative Cultural Studies**

Junior standing. (3). May be repeated for a maximum of 6 credits.

**COMPLIT 492. Comparative Literary Theory**

Junior standing. (3). May be repeated for a maximum of 6 credits.

**COMPLIT 495. Senior Seminar in Comparative Literature**

Comparative Literature majors with senior standing. (3). May not be repeated for credit. F.

**COMPLIT 496. Honors Thesis**

Consent of instructor required. COMPLIT 495 and Honors concentration in Comparative Literature. (3). (INDEPENDENT). May not be repeated for credit. Continuing Course. Y grade can be reported at end of the first-term to indicate work in progress. At the end of the second term, the final grade is posted for both term's elections. F, W, Sp, Su.

**COMPLIT 498. Directed Reading**

Consent of instructor required. (1 - 4). (INDEPENDENT). May not be repeated for credit. F, W, Sp/Su, Sp, Su.

## Courses in LSA Complex Systems

### Complex Systems (CMPLXSYS)

CMPLXSYS 250 / ENVIRON 250 / PUBPOL 250. Social Systems, Energy, and Public Policy

(3). (QR/1). May not be repeated for credit.

**CMPLXSYS 260 / SOC 260. Tipping Points, Bandwagons and Cascades: From Individual Behavior to Social Dynamics**

(3). May not be repeated for credit.

**CMPLXSYS 270. Agent-Based Modeling**

(3). May not be repeated for credit. Only 2 credits earned by students enrolled in or having completed CMPLXSYS 200.

**CMPLXSYS 391 / POLSCI 391. Introduction to Modeling Political Processes**

One course in Political Science. (4). (SS). (QR/1). May not be repeated for credit.

**CMPLXSYS 399. Independent Study-Directed Readings**

Consent of instructor required. (1 - 3; 2 in the half-term). May be repeated for a maximum of 6 credits. May be elected more than once in the same term.

**CMPLXSYS 430 / EEB 430. Modeling Infectious Diseases**

Consent of instructor required. MATH 115 or 120. (3). (BS). (QR/2). May not be repeated for credit. Rackham credit requires additional work.

**CMPLXSYS 489. Advanced Topics in Complex Systems**

Advanced standing. Technical prerequisites vary with topic. (3). May be elected three times for credit. Rackham credit requires additional work.

**CMPLXSYS 511. Theory of Complex Systems**

(3). (BS). May not be repeated for credit.

**CMPLXSYS 541 / PHYSICS 413. Introduction to Nonlinear Dynamics and the Physics of Complexity**

PHYSICS 401 or Graduate Standing. (Prerequisites enforced at registration.) An intermediate mechanics course (such as PHYSICS 401) and/or a course in introductory differential equations. (3). (BS). May not be repeated for credit. F.

## Courses in LSA Comprehensive Studies

### Comprehensive Studies Program (CSP)

**CSP 100. CSP Readings Seminar**

(3). (SS). May be elected twice for credit. F, W, Su.

**CSP 101. Comprehensive Studies Program: Our History of Academic Success**

Consent of department required. (1). May be repeated for a maximum of 2 credits. Offered mandatory credit/no credit.

**CSP 103 / MATH 103. Intermediate Algebra**

Only open to designated summer half-term Bridge students. (2 in the half-term). May not be repeated for credit.

**CSP 104 / MATH 104. Mathematical Thinking**

Only open to designated Summer half-term Bridge and M Academy students. (2 in the half-term). (QR/2). May not be repeated for credit.

**CSP 105. Reading and Writing Seminar: Insiders/Outsiders**

(4). (HU). May not be repeated for credit. W.

**CSP 210. Perspectives on Careers in Medicine and Health Care**

Consent of instructor required. (4). May not be repeated for credit.

## Courses in LSA Earth and Environmental Sciences

### Earth and Environmental Sciences (EARTH)

**EARTH 100. Coral Reefs**

(1). (NS). (BS). May not be repeated for credit. No credit granted to those who have completed or are enrolled in EARTH 156 or GEOSCI 156.

**EARTH 102. Energy from the Earth**

(1). (NS). (BS). May not be repeated for credit.

**EARTH 103. Dinosaurs and Other Failures**

(1). (NS). (BS). May not be repeated for credit. No credit granted to those who completed or are enrolled in EARTH 150.

**EARTH 104. Ice Ages, Past and Future**

(1). (NS). (BS). May not be repeated for credit. No credit granted to those who have completed or are enrolled in EARTH 151 or GEOSCI 151.

**EARTH 105. Our Active Earth: Plate Tectonics and Geohazards**

(1). (NS). (BS). May not be repeated for credit. No credit granted to those who have completed or are enrolled in EARTH 205 or 146 or GEOSCI 205 or 146.

**EARTH 107. Volcanoes and Earthquakes**

(1). (NS). (BS). May not be repeated for credit. No credit granted to those who have completed or are enrolled in EARTH 205 or 146 or 147; or GEOSCI 205 or 146 or 147.

**EARTH 108. When Earth Attacks: The Science Behind Natural Disasters**

(1). (NS). (BS). May not be repeated for credit. No credit granted to those who have completed or are enrolled in EARTH 147 or GEOSCI 147.

**EARTH 109. Water and Society**

(1). (NS). (BS). May not be repeated for credit. No credit granted to those who have completed or are enrolled in GEOSCI 206 or EARTH 206 or ENVIRON 206.

#### **EARTH 110. Evolving Oceans**

(1). (NS). (BS). May not be repeated for credit. No credit granted to those who have completed or are enrolled in GEOSCI 222 or EARTH 222.

#### **EARTH 111. Climate and Humankind**

(1). (NS). (BS). May not be repeated for credit. No credit granted to those who have completed or are enrolled in GEOSCI 151 or 331, or EARTH 151 or 331.

#### **EARTH 113. Planets and Moons**

(1). (NS). (BS). May not be repeated for credit. No credit granted to those who have completed or are enrolled in GEOSCI 153 or 204, or EARTH 153 or 204, or AOSS 204 or ASTRO 204.

#### **EARTH 114. Global Warming**

High School math, physics, and chemistry. (1). (NS). (BS). May not be repeated for credit. No credit granted to those who have completed or are enrolled in GEOSCI 151 or EARTH 151.

#### **EARTH 115. The Emerald Planet**

(1). (NS). (BS). May not be repeated for credit.

#### **EARTH 116 / ENVIRON 116. Introductory Geology in the Field**

(5 in the half-term). (NS). (BS). May not be repeated for credit. Reduced credit: Students who have completed GEOSCI 117 or EARTH 117 or ENVIRON 117 receive 2 credits; GEOSCI 119 or 120 or EARTH 119 or 120 or ENVIRON 119 or 120, 3 credits; GEOSCI 205 AND 206 or EARTH 205 AND 206 or ENVIRON 206, 3 credits; one of GEOSCI 205 or 206 or EARTH 205 or 206 or ENVIRON 206, 4 credits. Su at Camp Davis, Wyoming. May not be taken pass/fail.

#### **EARTH 118 / ENVIRON 118. Introductory Geology Laboratory**

Prior or concurrent enrollment in EARTH 119, or 205 and 206, or 284. (1). (NS). (BS). May not be repeated for credit. No credit if completed an introductory course in geology (EARTH/ENVIRON 116, 117, or 120). F, W.

#### **EARTH 119 / ENVIRON 119. Introductory Geology Lectures**

Concurrent enrollment in ENVIRON or EARTH (GEOSCI) 118 for the lab. (3 - 4). (NS). (BS). May not be repeated for credit. No credit granted to those who have completed GEOSCI 116, 117, or 120, and no credit granted to those who have completed or are enrolled in EARTH 116, 117, or 120 or ENVIRON 116, 117, or 120. No credit granted to those who have completed both EARTH 205 (or GEOSCI 205) AND one of GEOSCI 206 or EARTH 206 or ENVIRON 206; Three credits granted to those who have completed one of GEOSCI 205 or 206, EARTH 205 or 206, or ENVIRON 206. F, W.

#### **EARTH 120 / ENVIRON 120. Geology of National Parks and Monuments**

(4). (NS). (BS). May not be repeated for credit. No credit if completed

EARTH (GEOSCI)/ENVIRON 116, 117, or 119, or both EARTH (GEOSCI) 205 AND EARTH (GEOSCI)/ENVIRON 206. Only 3 credits with EARTH (GEOSCI) 205 or EARTH (GEOSCI)/ENVIRON 206. W.

#### **EARTH 122 / CLIMATE 102 / ENVIRON 102. Extreme Weather**

(3). (NS). (BS). May not be repeated for credit.

#### **EARTH 125. Evolution and Extinction**

(3). (NS). (BS). May not be repeated for credit. Those with credit for GEOSCI 106 or EARTH 106 may only elect EARTH 125 for 2 credits. May not be included in a concentration plan in Geological Sciences.

#### **EARTH 130 / CHEM 108 / PHYSICS 119. The Physical World**

High-school algebra. (4). (NS). (BS). (QR/2). May not be repeated for credit.

#### **EARTH 140 / CLIMATE 140. Climate and the Media**

High school science highly recommended. Enrollment restricted to first-year students, including those with sophomore standing. (3). (NS). (BS). May not be repeated for credit.

#### **EARTH 142. From Stars to Stones**

High school math and science. Enrollment restricted to first-year students, including those with sophomore standing. (3). (NS). (BS). May not be repeated for credit. Those with credit for GEOSCI 114 or EARTH 114 may only elect EARTH 142 for 2 credits.

#### **EARTH 144 / ENVIRON 144. Climate Change in the Age of Humans**

High school science and math recommended. Enrollment restricted to first-year students, including those with sophomore standing. (3). (NS). (BS). May not be repeated for credit. Those with credit for GEOSCI 111 or 331 or EARTH 111 or 331 may elect EARTH 144 for only 2 credits.

#### **EARTH 146. Plate Tectonics**

Enrollment restricted to first-year students, including those with sophomore standing. (3). (NS). (BS). May not be repeated for credit. No credit granted to those who have completed three of GEOSCI 105, 107, and 205 or EARTH 105, 107, and 205 (or any combination thereof). Those with credit for one of GEOSCI 105 and 107 or EARTH 105 and 107 (or any combination thereof) may only elect EARTH 146 for two credits. Those with credit for GEOSCI 205 or EARTH 205, or both GEOSCI 105 and 107 or EARTH 105 and 107 (or any combination thereof), may only elect EARTH 146 for one credit.

#### **EARTH 147. Natural Hazards**

Enrollment restricted to first-year students, including those with sophomore standing. (3). (NS). (BS). May not be repeated for credit. Students who have credit for GEOSCI 107 or 108 or EARTH 107 or 108 (or any combination thereof) may elect EARTH 147 for only 2 credits. Those who have credit for both GEOSCI 107 and 108 or EARTH 107 and 108 (or any combination thereof) may elect EARTH 147 for only 1 credit.

#### **EARTH 148. Seminar: Environmental Geology**

High school math and science. Enrollment restricted to first-year students, including those with sophomore standing. (3). (NS). (BS).

May not be repeated for credit. No credit granted to those who have completed GEOSCI 284 or EARTH 284 or are enrolled in EARTH 284. Those with credit for GEOSCI 109 or EARTH 109 may only elect EARTH 148 for 2 credits.

#### **EARTH 151. The Ice Ages: Past and Present**

Enrollment restricted to first-year students, including those with sophomore standing. (3). (NS). (BS). May not be repeated for credit. Those with credit for GEOSCI 104 or EARTH 104 may only elect EARTH 151 for 2 credits. F.

#### **EARTH 153. Earthlike Planets**

High school science and math recommended. Only first-year students (including first-year students with sophomore standing) may pre-register for this course. All other students need permission of instructor. (3). (NS). (BS). May not be repeated for credit. Those with credit for GEOSCI 113 or EARTH 113 may only elect EARTH 153 for 2 credits.

#### **EARTH 154. Ocean Resources**

High school science and math recommended. Enrollment restricted to first-year students, including those with sophomore standing. (3). (NS). (BS). May not be repeated for credit.

#### **EARTH 156. Coral Reef Dynamics**

(3). (NS). (BS). May not be repeated for credit.

#### **EARTH 159. Toward a Sustainable Human Future**

High school science and math recommended. Enrollment restricted to first-year students, including those with sophomore standing. (3). (NS). (BS). May not be repeated for credit.

#### **EARTH 160. The Science Behind Environmental Issues**

(3). (NS). (BS). May not be repeated for credit.

#### **EARTH 171 / AOSS 171 / BIOLOGY 110 / ENSCEN 171 / ENVIRON 110 / RCNSCI 110. Introduction to Global Change: The Science Behind Sustainability**

(4). (NS). (BS). May not be repeated for credit. Credit is granted for a combined total of 17 credits elected in introductory biology. Satisfies the geography requirement for State of Michigan certification for social studies teachers. F.

#### **EARTH 172 / AOSS 172 / ENSCEN 172 / ENVIRON 111 / GEOG 111.**

##### **Global Change: The Sustainability Challenge**

(4). (ID). (BS). (QR/2). May not be repeated for credit. Satisfies the geography requirement for State of Michigan certification for social studies teachers. W.

#### **EARTH 201 / ENVIRON 209 / GEOG 201. Introduction to Environmental Science and Geography**

(4; 3 in the half-term). (NS). (BS). May not be repeated for credit. No credit granted to those who have completed or are enrolled in GEOSCI 144 or 202 or EARTH 144 or 202 (or any combination thereof). Students who have completed EARTH 331 or GEOSCI 331 will receive only 3 credits. F.

#### **EARTH 202 / ENVIRON 202. Introduction to Earth and Environmental Sciences in the Rockies**

(5). (NS). (BS). May not be repeated for credit. No credit granted to those who have completed GEOSCI 201. No credit granted to those who have completed or are enrolled in EARTH 201 or ENVIRON 209 or GEOG 201. Su at Camp Davis, Wyoming. May not be taken pass/fail.

#### **EARTH 205. How the Earth Works: The Dynamic Planet**

(2). (NS). (BS). May not be repeated for credit. No credit granted to those who have completed GEOSCI 116, 117, 119, 120, or 146 and no credit granted to those who have completed or are enrolled in EARTH 116, 117, 119, 120, or 146 or ENVIRON 116, 117, 119 or 120. No credit granted to those who have completed both GEOSCI 105 and 107 or EARTH 105 and 107 (or any combination thereof). Those with credit for one of GEOSCI 105 and 107 or EARTH 105 and 107 (or any combination thereof) may only elect EARTH 205 for 1 credit.

#### **EARTH 206 / ENVIRON 206. How the Earth Works: The Water Cycle and Environment**

(2). (NS). (BS). May not be repeated for credit. No credit granted to those who have completed GEOSCI 116 or 117 or 119 or 120, and no credit granted to those who have completed or are enrolled in EARTH 116 or 117 or 119 or 120 or ENVIRON 116 or 117 or 119 or 120. Those with credit for GEOSCI 109 or EARTH 109 may only elect EARTH 206 or ENVIRON 206 for 1 credit.

#### **EARTH 222 / ENVIRON 232. Introductory Oceanography**

(3). (NS). (BS). (QR/2). May not be repeated for credit. No credit granted to those who have completed or are enrolled in AOSS 203.

#### **EARTH 223 / ENVIRON 233. Introductory Oceanography, Laboratory**

(1). (NS). (BS). (QR/2). May not be repeated for credit.

#### **EARTH 238 / ALA 238 / ENVIRON 238 / HISTORY 238 / NEAREAST 278. Zoom: A History of Everything**

(4; 3 - 4 in the half-term). (ID). May not be repeated for credit.

#### **EARTH 255 / ASTRO 255. Earth and Space Sciences for Elementary School Educators**

High school mathematics and physics recommended. (3). (NS). (BS). May not be repeated for credit. No credit granted to those who have completed or are enrolled in ASTRO 101 or 115, or EARTH 171 (or GEOSCI 171) or AOSS 171 or BIOLOGY 110 or ENSCEN 171 or ENVIRON 110.

#### **EARTH 259 / ENVIRON 259. Earth's Future and a Resilient Human Society**

(4). (NS). (BS). May not be repeated for credit. No credit granted to those who have completed or are enrolled in EARTH 111 or 159.

#### **EARTH 277. Water in the 21st Century**

(3). (NS). (BS). May not be repeated for credit.

#### **EARTH 284 / ENVIRON 284. Environmental Geology**

(4). (NS). (BS). May not be repeated for credit. No credit granted to those who have completed GEOSCI 148, and no credit granted to those

who have completed or are enrolled in EARTH 148. Those with credit for GEOSCI 147 or EARTH 147 may elect EARTH 284 or ENVIRON 284 for only 3 credits.

**EARTH 296. Topics in the Earth and Environmental Sciences**  
(1 - 5). (NS). (BS). May be elected twice for credit.

**EARTH 299. Independent Study and Research**

Consent of instructor required. (1 - 6). (INDEPENDENT). May be repeated for a maximum of 12 credits. A maximum of one credit of research or independent study (EARTH 299, 489, 490, 494, 498, 499) can be used for electives for the earth and environmental sciences concentration.

**EARTH 305. Earth's Surface and Sediments**

An introductory geological sciences laboratory course. (4). (NS). (BS). May not be repeated for credit. F.

**EARTH 309 / ENVIRON 309. GIS Explorations of the Past, Present, and Future**

General computer experience is required, including word processing, spreadsheets, and presentations. (3). (ID). (BS). May not be repeated for credit.

**EARTH 313 / EEB 313. Geobiology**

EARTH (GEOSCI) 119 or BIOLOGY 171 or CHEM 130 or permission of instructor. (4). (BS). May not be repeated for credit.

**EARTH 314. Global and Applied Geophysics**

MATH 115 or equivalent. (Prerequisites enforced at registration.) Introductory algebra-based physics. (4). (BS). May not be repeated for credit. May not be taken pass/fail.

**EARTH 315. Earth Materials**

CHEM 130 or CHEM 210 or CHEM 230. (Prerequisites enforced at registration.) (4). (BS). May not be repeated for credit.

**EARTH 320 / CLIMATE 320 / SPACE 320. Earth Systems Evolution**

MATH 115, MATH 116; (C or better). (3). (BS). May not be repeated for credit.

**EARTH 321 / CLIMATE 321 / SPACE 321. Earth Systems Dynamics**

CLIMATE/SPACE 320; Preceded or accompanied by MATH 215 and MATH 216. (3). (BS). May not be repeated for credit.

**EARTH 323 / CLIMATE 323 / SPACE 323. Earth System Analysis**

(4). May not be repeated for credit.

**EARTH 325 / ENVIRON 325. Environmental Geochemistry**

Introductory chemistry. (4). (NS). (BS). May not be repeated for credit.

**EARTH 331. Climate and Climate Change**

A working knowledge of high school algebra and physical sciences. (4). (NS). (BS). May not be repeated for credit. Those with credit for GEOSCI 111 or 144 or 201 or EARTH 111 or 144 or 201 or GEOG 201 or

ENVIRON 209 may only elect EARTH 331 for 3 credits.

**EARTH 333 / ENVIRON 333. The Inexhaustible Seas? Marine Resources and Environmental Issues**

EARTH (GEOSCI) 116, 119, 125, 120, 222, or 284. (4). (NS). (BS). May not be repeated for credit. No credit granted to those who have completed GEOSCI 154, and no credit granted to those who have completed or are enrolled in EARTH 154.

**EARTH 344 / ENVIRON 344. Sustainable and Fossil Energy: Options and Consequences**

Consent of department required. At least one previous course in physical sciences or engineering. (3 in the half-term). (NS). (BS). May not be repeated for credit. Su at Camp Davis, Wyoming. May not be taken pass/fail.

**EARTH 350 / CLIMATE 350 / SPACE 350. Atmospheric Thermodynamics**

MATH 216or256or286or316 (C>). (Prerequisites enforced at registration.) (3). May not be repeated for credit.

**EARTH 351. Earth Structure**

One introductory geological sciences laboratory course. (4). (NS). (BS). May not be repeated for credit. No credit granted to those who have completed or are enrolled in EARTH 451 or GEOSCI 451. W.

**EARTH 370 / SPACE 370. Solar-Terrestrial Relations**

MATH 216 and PHYSICS 240. (4). May not be repeated for credit.

**EARTH 380 / ENVIRON 380. Mineral Resources, Economics, and the Environment**

No previous courses in Geology or other sciences are required. (4; 3 - 4 in the half-term). (NS). (BS). (QR/2). May not be repeated for credit.

**EARTH 381 / CLIMATE 380 / SPACE 380. Introduction to Atmospheric Radiation**

MATH 216or256or286or316 (C>). (Prerequisites enforced at registration.) (3). May not be repeated for credit.

**EARTH 396. Topics in the Earth and Environmental Sciences**

(1 - 5). (NS). (BS). May be elected twice for credit.

**EARTH 401 / CLIMATE 401. Geophysical Fluid Dynamics**

CLIMATE 323, SPACE 323, or EARTH 323 (or GEOSCI 323); MATH 215 and 216 and PHYSICS 240. (3). May not be repeated for credit.

**EARTH 408 / ENVIRON 403. Introduction to GIS in the Earth Sciences**

An introductory geology or environmental sciences course (EARTH 116, 119, 120, 201, or 284) and one math course or a statistics course (MATH 115, 116, 120, 121, 156, 175, 176, 185, 186, 295, 296, STATS 150, 180, 250, 280). (Prerequisites enforced at registration.) Although previous GIS experience is not required, students are expected to be familiar with desktop and mobile computing, and to be comfortable with at least one quantitative software program (Matlab, Excel, Mathematica, or R, as examples). (3). (BS). May not be repeated for



credit.

**EARTH 409 / CLIMATE 410. Earth System Modeling**

CLIMATE 320, CLIMATE 321, SPACE 320, SPACE 321. (4). (BS). May not be repeated for credit.

**EARTH 411 / CLIMATE 411. Cloud and Precipitation Processes**

CLIMATE 350, SPACE 350, MATH 216. (3). May not be repeated for credit.

**EARTH 412. Geochemistry of the Solid Earth**

EARTH (GEOSCI) 315. (Prerequisites enforced at registration.) (4). (BS). May not be repeated for credit. Rackham credit requires additional work.

**EARTH 413. Geomicrobiology: How Microorganisms Shape Earth and Environment**

(3). (BS). May not be repeated for credit. Rackham credit requires additional work.

**EARTH 414 / CLIMATE 414. Weather Systems**

CLIMATE 350, SPACE 350, CLIMATE 401 or CLIMATE 551. (3). May not be repeated for credit.

**EARTH 417. Geology of the Great Lakes**

An introductory course in Geology (EARTH 116, 119, 120 or 205/206/118), BIOLOGY 171 or 172, or Oceanography (EARTH 222/223), OR permission of instructor. (2). (BS). May not be repeated for credit.

**EARTH 418. Paleontology**

An introductory course in Geology (EARTH 116, 119, 120 or 205/206/118) or BIOLOGY 171 or 172. (3). (BS). May not be repeated for credit. F.

**EARTH 419. Paleontology Laboratory**

Prior or concurrent enrollment in EARTH (GEOSCI) 418. (1). (BS). May not be repeated for credit. F.

**EARTH 421 / CLIMATE 421 / ENVIRON 426. Introduction of Physical Oceanography**

MATH 115 and 116, and an introductory science course. (3). (BS). May not be repeated for credit. Rackham credit requires additional work.

**EARTH 422. Principles of Geochemistry**

EARTH (GEOSCI) 305, 310, 315 and CHEM 125/126/130. (3). (BS). May not be repeated for credit. W.

**EARTH 423 / CLIMATE 422. Boundary Layer Meteorology**

CLIMATE 350, SPACE 350 or equivalent. (4). May not be repeated for credit.

**EARTH 429. Computational Mineralogy**

(4). (BS). May not be repeated for credit. Rackham credit requires

additional work.

**EARTH 431 / ENVIRON 431. Terrestrial Biomes Past, Present and Future**

BIOLOGY 171, or one of EARTH (GEOSCI) 116, 119, 120, or 205/206; or Graduate standing. (Prerequisites enforced at registration.) (3). (BS). May not be repeated for credit. Rackham credit requires additional work.

**EARTH 432. Plant Paleobiology**

BIOLOGY 171 or GEOSCI 116, or 119, or 120, or 205/206, or graduate standing. (Prerequisites enforced at registration.) (4). (BS). May not be repeated for credit. Rackham credit requires additional work.

**EARTH 433. Field Studies in Economic Geology**

Permission of instructor. (1 - 4). (BS). May be repeated for credit.

**EARTH 434. Field Studies in Geophysics, Tectonics, and Structure**

Permission of instructor. (1 - 4). (BS). May be repeated for credit.

**EARTH 435. Field Studies in Mineralogy, Petrology, and Geochemistry**

Permission of instructor. (1 - 4). (BS). May be repeated for credit.

**EARTH 436. Field Studies in Stratigraphy, Paleontology, and Sedimentology**

Permission of instructor. (1 - 4). (BS). May be repeated for credit.

**EARTH 437. Evolution of Vertebrates**

EARTH (GEOSCI) 125 or BIOLOGY 162 or 171 or 172. (4). (BS). May not be repeated for credit.

**EARTH 440. Geological Field Methods**

EARTH (GEOSCI) 305, 310, and 351 or equivalents strongly recommended. (5). (BS). May not be repeated for credit. Satisfies the Earth and Environmental Sciences concentration Field Experience requirement. Su at Camp Davis, Wyoming. May not be taken pass/fail. Rackham credit requires additional work.

**EARTH 441. Field Geology Project**

Consent of department required. Completion of EARTH (GEOSCI) 440 immediately prior. (1). (BS). May not be repeated for credit. Su at Camp Davis, Wyoming. May not be taken pass/fail. Rackham credit requires additional work.

**EARTH 442 / ENVIRON 442. Earth Surface Processes and Soils**

MATH 115 and CHEM 130. (4). (BS). May not be repeated for credit. F.

**EARTH 444. Analytical Paleobiology**

Completion of an introductory paleontology course such as EARTH 418, or evolutionary biology such as EEB 390. (4). (BS). May not be repeated for credit. Rackham credit requires additional work.

**EARTH 445 / EEB 445. Biogeography**

BIOLOGY 171, (172 or 174) & 173; or BIOLOGY 195 & 173. One course

in historical geology is recommended. (3). (BS). May not be repeated for credit.

**EARTH 446 / ENVIRON 446. Paleoclimatology**

MATH 115 and 116 and EARTH 305, or permission of instructor. (4). (BS). May not be repeated for credit. Rackham credit requires additional work.

**EARTH 449. Marine Geology**

EARTH (GEOSCI) 222/223 or introductory physical geology (EARTH (GEOSCI) 116, 117, 120 or 205/206/118). (3). (BS). May not be repeated for credit.

**EARTH 450 / ENVIRON 450. Ecosystem Science in the Rockies**

Introductory Geology [EARTH 119&118 or 116 or 120, or ENVIRON 119&118 or 116], AND (either General Ecology [ENVIRON 281 or BIOLOGY 281] or Introductory Environmental Science [EARTH 201 or 202 or 284, or ENVIRON 209 or 202 or 284]). (Prerequisites enforced at registration.) At least two courses from the following list: Environmental Geochemistry (EARTH 325), Geobiology (EARTH 313), Earth Materials (EARTH 315), Earth's Surface and Sediments (EARTH 305). (5 in the half-term). (NS). (BS). May not be repeated for credit.

**EARTH 451. Introduction to Structure and Tectonics**

Permission of Instructor. (3). (BS). May not be repeated for credit. No credit granted to those who have completed or are enrolled in GEOSCI 351.

**EARTH 454 / CLIMATE 440. Meteorological Analysis Laboratory**

CLIMATE 350, SPACE 350, CLIMATE 401. (4). May not be repeated for credit.

**EARTH 455. Determinative Methods in Mineralogical and Inorganic Materials**

One term of Chemistry and Physics. (4). (BS). May not be repeated for credit. W.

**EARTH 457 / CLIMATE 451 / ENSCEN 451. Atmospheric Dynamics I**

CLIMATE 401 or MATH 450. (4). (BS). May not be repeated for credit.

**EARTH 460 / ENVIRON 460. Paleobiology and Paleoenvironments**

At least two courses from following list: EARTH 305, EARTH 313, EARTH 418. (5). (BS). May not be repeated for credit. Rackham credit requires additional work.

**EARTH 465 / CHEM 467 / CLIMATE 467 / ENSCEN 467 / ENVIRON 467. Biogeochemical Cycles**

MATH 116, CHEM 210, and PHYSICS 240 (or 260). (3). (BS). May not be repeated for credit. F, W.

**EARTH 467. Stratigraphy and Basin Analysis**

One of the following: EARTH 116 or ENVIRON 116; or GEOSCI 119 and 118, or ENVIRON 119 and 118; or EARTH 120 or ENVIRON 120 or EARTH 201 or GEOG 201 or ENVIRON 209; or EARTH 205 and 206 (or ENVIRON 206) and 207; or graduate standing. (Prerequisites enforced at registration.) EARTH 305, 310, and 351. (4). (BS). May not be

repeated for credit. F.

**EARTH 468. Data Analysis and Model Estimation**

MATH 115. (Prerequisites enforced at registration.) Knowledge of, or willingness to learn, a programming language (e.g., Matlab, Mathematica). (3). (BS). (QR/2). May not be repeated for credit.

**EARTH 474 / CLIMATE 474. Ice Sheets, Glaciers and Climate Change**

MATH 115 and 116. (3). May not be repeated for credit.

**EARTH 475 / CLIMATE 475 / ENSCEN 475. Earth System Interactions**

Senior standing in science or engineering. (4). (BS). May not be repeated for credit.

**EARTH 477 / ENVIRON 479. Hydrogeology**

MATH 116; and High school knowledge of PHYSICS, CHEMISTRY, and EARTH (GEOSCI) or equivalent. (4). (BS). May not be repeated for credit.

**EARTH 478. Geochemistry of Natural Waters**

College Chemistry. (4). (BS). May not be repeated for credit.

**EARTH 483. Geophysics: Seismology**

Prior or concurrent election of MATH 215 and PHYSICS 240 (or 260). (4). (BS). May not be repeated for credit.

**EARTH 489. Geological Sciences Honors**

Consent of instructor required. (1 - 6). (BS). (INDEPENDENT). May be repeated for a maximum of 6 credits. A maximum of one credit of research or independent study (EARTH 299, 489, 490, 494, 498, 499) can be used for electives for the earth and environmental sciences concentration.

**EARTH 490. Geological Sciences Honors**

Consent of instructor required. (1 - 6). (BS). (INDEPENDENT). May be repeated for a maximum of 6 credits. Continuing Course. Y grade can be reported at end of the first-term to indicate work in progress. At the end of the second term of EARTH 490, the final grade is posted for both term's elections. F, W, Sp. A maximum of one credit of research or independent study (EARTH 299, 489, 490, 494, 498, 499) can be used for electives for the earth and environmental sciences concentration.

**EARTH 494. Experiential Learning in the Earth Sciences**

Consent of instructor required. Junior or senior standing; and one of the following: EARTH (GEOSCI) 116, 119 and 118, 120, 201, 205/206/207, 222 and 223, 284 or ENVIRON 116, 119 and 118, 120, 209, 232 and 233, 284 or GEOG 201. (1 - 4). (BS). (EXPERIENTIAL). May be repeated for a maximum of 8 credits. A maximum of one credit of research or independent study (EARTH 299, 489, 490, 494, 498, 499) can be used for electives for the earth and environmental sciences concentration. Offered mandatory credit/no credit. Rackham credit requires additional work.

**EARTH 495. Methods in Research for Natural Sciences**

Consent of department required. (1). (BS). May not be repeated for

credit. Offered mandatory credit/no credit. Rackham credit requires additional work.

**EARTH 496. Special Topics in the Earth and Environmental Sciences (1 - 5).** (BS). May be elected three times for credit. May be elected more than once in the same term. Rackham credit requires additional work.

**EARTH 497. William T. Smith Lecture Seminar**  
Two required Geological Sciences concentration core courses. (1). May be elected twice for credit. Offered mandatory credit/no credit.

**EARTH 498. Research or Special Work**  
Consent of instructor required. (1 - 6). (INDEPENDENT). May be repeated for a maximum of 6 credits. A maximum of one credit of research or independent study (EARTH 299, 489, 490, 494, 498, 499) can be used for electives for the earth and environmental sciences concentration.

**EARTH 499. Research or Special Work**  
Consent of instructor required. (1 - 6). (INDEPENDENT). May be repeated for a maximum of 6 credits. A maximum of one credit of research or independent study (EARTH 299, 489, 490, 494, 498, 499) can be used for electives for the earth and environmental sciences concentration. F, W, Sp/Su, Sp, Su.

**EARTH 515. Tectonics of Oceans and Continents**  
EARTH (GEOSCI) 351. (4). (BS). May not be repeated for credit.

**EARTH 531. Seminar in Geologic Problems**  
Permission of instructor. (1 - 3). (BS). May be elected three times for credit. May be elected more than once in the same term. Offered mandatory credit/no credit. Rackham credit requires additional work.

**EARTH 532. Seminar in Climate, Tectonics, and Surface Processes**  
Permission of instructor. (1 - 2). (BS). May be repeated for credit. May be elected more than once in the same term.

**EARTH 534. Seminar in Geophysics, Tectonics, or Structure**  
Permission of instructor. (1 - 2). (BS). May be repeated for credit. May be elected more than once in the same term.

**EARTH 535. Seminar in Mineralogy, Petrology, or Geochemistry**  
Permission of instructor. (1 - 2). (BS). May be repeated for credit. May be elected more than once in the same term.

**EARTH 536. Seminar in Stratigraphy, Paleontology, or Sedimentology**  
Permission of instructor. (1 - 2). (BS). May be repeated for credit. May be elected more than once in the same term.

**EARTH 581 / CEE 581. Aquatic Chemistry**  
CHEM 130 and senior or graduate standing. (3). (BS). May not be repeated for credit.

## Courses in LSA Ecology and Evolutionary Biology

### Ecology and Evolutionary Biology (EEB)

#### EEB 300. Undergraduate Research

Consent of instructor required. Eight credits of biology and 3.0 grade point average in science; permission of faculty member in EEB. (1 - 3). (BS). (INDEPENDENT). May be repeated for a maximum of 9 credits. Continuing Course. Y grade can be reported at end of the first-term to indicate work in progress. At the end of the second term (EEB 300 or 400), the final grade is posted for both term's elections. Three credits of independent research must be completed in one term to satisfy a Biology laboratory requirement. A maximum of three credits of any independent study course may count toward the Biology concentration programs.

#### EEB 301. Active Learning Assistant

Consent of instructor required. BIOLOGY 171, 172/174, and 173, as well as experience in the target course subject matter. (2). (EXPERIENTIAL). (INDEPENDENT). May be elected four times for credit. 8 credits max allowed between EEB 301 and MCDB 301. Offered mandatory credit/no credit.

#### EEB 302. Teaching Experience for Undergraduates

Consent of instructor required. (1 - 3). (EXPERIENTIAL). May not be repeated for credit.

#### EEB 303. Topics in Biology

Recommended prerequisites will be established at the class level by the section instructors. (1 - 4). (NS). (BS). May be repeated for a maximum of 6 credits. May be elected more than once in the same term.

#### EEB 313 / EARTH 313. Geobiology

EARTH (GEOSCI) 119 or BIOLOGY 171 or CHEM 130 or permission of instructor. (4). (BS). May not be repeated for credit.

#### EEB 315 / ENVIRON 315. The Ecology and Evolution of Infectious Diseases

BIOLOGY 100; or BIOLOGY 171, (172 or 174) & 173; or BIOLOGY 195 & 173. (3). (NS). (BS). May not be repeated for credit.

#### EEB 320 / ENVIRON 311. Rivers, Lakes, and Wetlands: Introduction to Aquatic Ecosystems

One course in BIOLOGY or permission of instructor. (4). (NS). (BS). May not be repeated for credit. No credit granted to those who have completed or are enrolled in ENVIRON 331/EEB 321 (Rivers, Lakes and Wetlands). Satisfies a Biology laboratory requirement.

#### EEB 321 / ENVIRON 331. Rivers, Lakes, and Wetlands: Introduction to Aquatic Ecosystems (UMBS)

Consent of department required. One course in BIOLOGY. (5 in the half-term). (NS). (BS). May not be repeated for credit. No credit granted to those who have completed or are enrolled in ENVIRON

311/EEB 320 (*Rivers, Lakes and Wetlands*).

**EEB 330. Biology of Birds**

Two college-level courses in biology. (5 in the half-term). (BS). May not be repeated for credit. Satisfies a Biology laboratory requirement.

**EEB 335. Biodiversity Research Seminar**

BIOLOGY 171 and 172 (or 174); or BIOLOGY 195 and 173. (Prerequisites enforced at registration.) Recommended grade of at least B in BIOLOGY introductory courses. (2). (BS). May not be repeated for credit. F and W.

**EEB 341. Parasitology**

BIOLOGY 171, (172 or 174) & 173; or BIOLOGY 195 & 173. (4). (BS). May not be repeated for credit. W. Satisfies a Biology laboratory requirement.

**EEB 348 / ENVIRON 348. Forest Ecosystems**

Consent of department required. BIOLOGY 171, (172 or 174) & 173; or BIOLOGY 195 & 173. (5 in the half-term). (NS). (BS). May not be repeated for credit. Su at Biological Station.

**EEB 362 / ANTHRBIO 362 / ENVIRON 362. Primate Evolutionary Ecology**

An introductory course on primates, ecology, or conservation biology is advised. No quantitative or statistical training is required. (4). (NS). (BS). May not be repeated for credit.

**EEB 372 / ENVIRON 372. General Ecology Laboratory**

BIOLOGY 171, (172 or 174) & 173; or BIOLOGY 195 & 173; AND concurrent or prior enrollment in BIOLOGY 281/ENVIRON 281. (3). (BS). May not be repeated for credit.

**EEB 380. Oceanography: Marine Ecology**

BIOLOGY 171, (172 or 174) & 173; or BIOLOGY 195 & 173; and one term of college CHEM or PHYSICS. (3). (BS). May not be repeated for credit.

**EEB 381 / ENVIRON 381. General Ecology**

BIOLOGY 171, (172 or 174) & 173; or BIOLOGY 195 & 173; AND a laboratory course in CHEM. (5 in the half-term). (BS). May not be repeated for credit.

**EEB 390. Evolution**

BIOLOGY 171 or (195 & 173); prior or concurrent enrollment in BIOLOGY 305. (3; 5 in the half-term). (BS). May not be repeated for credit.

**EEB 391. Introduction to Evolution: Quantitative Approach**

MATH 115, 120, 185, or equivalent. (Prerequisites enforced at registration.) Any introductory course in probability and statistics. (4). (BS). May not be repeated for credit. No credit granted to those who have completed or are enrolled in EEB 390 or EEB 392.

**EEB 392. Evolution (UMBS)**

BIOLOGY 171 or (195 & 173); prior or concurrent enrollment in BIOLOGY 305. (5 in the half-term). (BS). May not be repeated for credit. No credit granted to those who have completed or are enrolled in EEB 391 (*Quantitative Evolution*) or EEB 390 (*Evolution*). This course is taught at the University of Michigan Biological Field Station (UMBS) in the spring and/or summer terms only.

**EEB 397 / MCDB 397. Writing in Biology**

MCDB 300 or 400, or EEB 300 or 400, or permission of instructor. (3). (BS). May not be repeated for credit. No credit granted to those who have completed or are enrolled in EEB 301 or MCDB 301.

**EEB 399 / MCDB 399. Doing Science: An Introduction to Experimental Design in the Life Sciences**

Prior or concurrent enrollment in MCDB or EEB 300. (1 in the half-term). (BS). May not be repeated for credit.

**EEB 400. Advanced Research**

Consent of instructor required. 12 credits of BIOLOGY, 3.0 average in science, and permission of instructor in EEB. (1 - 3). (BS). (INDEPENDENT). May be repeated for a maximum of 9 credits. Continuing Course. Y grade can be reported at end of the first-term to indicate work in progress. At the end of the second term, the final grade is posted for both term's elections. Three credits of independent research must be completed in one term to satisfy a Biology laboratory requirement. A maximum of three credits of any independent study course may count toward the Biology concentration programs.

**EEB 401. Advanced Topics in Biology**

Intended for senior majors. The prerequisites will be set by the instructor as appropriate for each section. (1 - 4). (BS). May be repeated for a maximum of 6 credits. May be elected more than once in the same term.

**EEB 404 / MCDB 404. Genetics, Development, and Evolution**

BIOLOGY 305. (Prerequisites enforced at registration.) (3). (BS). May not be repeated for credit.

**EEB 405. Biological Station Special Topics**

College course in biology, chemistry, and ecology. (5 in the half-term). (BS). May not be repeated for credit. Rackham credit requires additional work.

**EEB 408. Modeling for Ecology and Evolutionary Biology**

MATH 115 or equivalent; and BIOLOGY 171, 172 or 174, & 173 or BIOLOGY 195 & 173. (Or Graduate Student standing.). (Prerequisites enforced at registration.) (3). (BS). May not be repeated for credit.

**EEB 410. EEB Capstone Seminar**

BIOLOGY 281 and 390. (3). (BS). May not be repeated for credit.

**EEB 414. Molecular Approaches in Ecology and Evolutionary Biology**

BIOLOGY 171 & 172/174 & 173, OR BIOLOGY 195 & 173, OR Graduate Student Standing. (Prerequisites enforced at registration.) EEB 390 (*Evolution*) and BIOLOGY 305 (*Genetics*). (2 in the half-term). (BS). May not be repeated for credit.

**EEB 416 / MCDB 416. Introduction to Bioinformatics**

*BIOLOGY 305 and EEB 390, or graduate standing. (Prerequisites enforced at registration.) (4). (BS). May not be repeated for credit. Rackham credit requires additional work.*

**EEB 424 / ENVIRON 415 / NRE 415. Behavioral Ecology and Conservation Biology**

*BIOLOGY 162 or 171 and completion or concurrent enrollment in either ENVIRON 415 or EEB 424 or NRE 415. (4). (BS). May not be repeated for credit. No credit granted to those who have completed or are enrolled in EEB 492.*

**EEB 430 / CMLXSYS 430. Modeling Infectious Diseases**

*Consent of instructor required. MATH 115 or 120. (3). (BS). (QR/2). May not be repeated for credit. Rackham credit requires additional work.*

**EEB 431. Ecology of Animal Parasites**

*Two laboratory courses in BIOLOGY. (5 in the half-term). (BS). May not be repeated for credit. Meets June 26 - August 21, 2010.*

**EEB 433 / ENVIRON 433 / NRE 433. Ornithology**

*BIOLOGY 171 and (172 or 174) and 173, or BIOLOGY 195 and 173. (4). (BS). May not be repeated for credit. Satisfies a Biology laboratory requirement.*

**EEB 436 / ENVIRON 436 / NRE 436. Woody Plants: Biology and Identification**

*BIOLOGY 162 or 171. (4). (BS). May not be repeated for credit. Rackham credit requires additional work.*

**EEB 442. Biology of Insects**

*BIOLOGY 171, (172 or 174) & 173; or BIOLOGY 195 & 173. (3). (BS). May not be repeated for credit. No credit granted to those who have completed or are currently enrolled in EEB 443 (Biology of Insects at UMBS). Satisfies a Biology laboratory requirement.*

**EEB 443. Biology of Insects (UMBS)**

*BIOLOGY 171, (172 or 174) & 173; or BIOLOGY 195 & 173. (5 in the half-term). (BS). May not be repeated for credit. No credit granted to those who have completed or are currently enrolled in EEB 442 (Biology of Insects). This course is taught at the University of Michigan Biological Field Station (UMBS) in the spring and/or summer terms only. Rackham credit requires additional work.*

**EEB 445 / EARTH 445. Biogeography**

*BIOLOGY 171, (172 or 174) & 173; or BIOLOGY 195 & 173. One course in historical geology is recommended. (3). (BS). May not be repeated for credit.*

**EEB 446. Microbial Ecology**

*Introductory Microbiology (BIOLOGY 207 or the equivalent) and one 300-level or above biology course [Microbial diversity (EEB 470) and general ecology (EEB 281/381) are recommended.]. (3). (BS). May not be repeated for credit. For the Microbiology concentration, this course counts as a Group 1 Specified Elective.*

**EEB 451 / ENVIRON 451 / NRE 451. Biology of Mammals**

*BIOLOGY 171, (172 or 174) & 173; or BIOLOGY 195 & 173. (4). (BS). May not be repeated for credit. F. (Offered in alternate years). Satisfies a Biology laboratory requirement.*

**EEB 453. Field Mammalogy**

*Two laboratory courses in BIOLOGY. (5 in the half-term). (BS). May not be repeated for credit. (Offered in even years at the Biological Station). Satisfies a Biology laboratory requirement.*

**EEB 455. Ethnobotany**

*Two college-level courses in BIOLOGY. (5 in the half-term). (BS). May not be repeated for credit. Satisfies a Biology laboratory requirement.*

**EEB 457. Algae in Freshwater Ecosystems**

*Two laboratory courses in Botany. (5 in the half-term). (BS). May not be repeated for credit. (Offered in even years at the Biological Station). Satisfies a Biology laboratory requirement.*

**EEB 459. Systematic Botany**

*BIOLOGY 171, (172 or 174) & 173; or BIOLOGY 195 & 173; OR BIOLOGY 255. (4). (BS). May not be repeated for credit. F. Satisfies a Biology laboratory requirement.*

**EEB 463. Neotropical Plant Families**

*BIOLOGY 215 or EEB 459. (3). (BS). May not be repeated for credit. Satisfies a Biology laboratory requirement.*

**EEB 466 / MATH 466. Mathematical Ecology**

*MATH 217, 417, or 419; MATH 256, 286, or 316; and MATH 450 or 451. (3). May not be repeated for credit. Rackham credit requires additional work.*

**EEB 468. Biology of Fungi**

*BIOLOGY 305, EEB 390, or BIOLOGY 281 strongly suggested. (4). (BS). May not be repeated for credit.*

**EEB 470. Microbial Diversity**

*BIOLOGY 207; CHEM 210 (or equivalent); and at least one 300-level course in MCDB or EEB. (Prerequisites enforced at registration.) Junior standing or above. (3). (BS). May not be repeated for credit.*

**EEB 472. Plant-Animal Interactions**

*BIOLOGY 281. (3). (BS). May not be repeated for credit. W.*

**EEB 476 / ENVIRON 476 / NRE 476. Ecosystem Ecology**

*General Ecology and a 400-level course in Aquatic or Terrestrial Ecology. (3). (BS). May not be repeated for credit. W.*

**EEB 477. Laboratory in Field Ecology**

*A course in Ecology. (5). (BS). May not be repeated for credit. F. Satisfies a Biology laboratory requirement.*

**EEB 480. Model-based Statistical Inference for Ecology**

*Senior natural science concentrator or Graduate student. (4). (BS).*

May not be repeated for credit.

**EEB 482. Freshwater Ecosystems: Limnology (UMBS)**

Sophomores and above. (Prerequisites enforced at registration.) One course in each of the following: Ecology, Chemistry, and Physics. (5 in the half-term). (BS). May not be repeated for credit. No credit granted to those who are enrolled in or have completed BIOLOGY 482, EEB 483, or EEB 484.

**EEB 483. Freshwater Ecosystems: Limnology**

Sophomores and above. (Prerequisites enforced at registration.) One course in each of the following: Ecology, Chemistry, and Physics. (4). (BS). (QR/1). May not be repeated for credit. No credit granted to those who are enrolled in or have completed BIOLOGY 482, EEB 482, or EEB 484. W.

**EEB 485. Population and Community Ecology**

(4). (BS). May not be repeated for credit. Rackham credit requires additional work.

**EEB 486. Biology and Ecology of Fish**

Two laboratory courses in BIOLOGY. (5 in the half-term). (BS). May not be repeated for credit. (Offered in odd years at the Biological Station). Satisfies a Biology laboratory requirement.

**EEB 487 / ENVIRON 409 / NRE 409. Ecology of Fishes**

BIOLOGY 162 or 171, 172 and 173. (3 - 4). (BS). May not be repeated for credit. W. (Lectures: 3 credits; lectures and lab: 4 credits). Satisfies a Biology laboratory requirement only if the student signs up for four credits.

**EEB 489 / ENVIRON 430 / NRE 430. Soil Ecology**

BIOLOGY 162 or 171 and 172 and 173, and General Chemistry. Concurrent enrollment in ENVIRON 436/EEB 436 and ENVIRON 435/NRE 435 highly recommended. (3). (BS). May not be repeated for credit. F. Satisfies a Biology laboratory requirement.

**EEB 490. Evolution at the Population Level**

MATH 115. (Prerequisites enforced at registration.) BIOLOGY 305. (3). (BS). May not be repeated for credit. May be used to satisfy an elective requirement in several biology majors and minors.

**EEB 491. Phylogenetic Methods and Theory**

BIOLOGY 171, 172 or 174, & 173 or BIOLOGY 195 & 173. (4). (BS). May not be repeated for credit.

**EEB 492. Behavioral Ecology**

BIOLOGY 172 or 174 or [BIOLOGY 195 & 173]. Or Graduate Student Standing. (Prerequisites enforced at registration.) EEB 390 (Evolution). (3). (BS). May not be repeated for credit. No credit granted to students who have completed or are currently enrolled in EEB 493 (Behavioral Ecology at UMBS), or NRE/ENVIRON 415/EEB 424. (Offered in odd years at the Biological Station).

**EEB 493. Behavioral Ecology (UMBS)**

BIOLOGY 171, (172 or 174) & 173; or BIOLOGY 195 & 173. Or graduate

student standing. (Prerequisites enforced at registration.) EEB 390 (Evolution). (5 in the half-term). (BS). May not be repeated for credit. No credit granted to students who have completed or are currently enrolled in EEB 492. This course is taught at the University of Michigan Biological Field Station (UMBS) in the spring and/or summer terms only. Rackham credit requires additional work.

**EEB 494 / MCDB 494. Teaching College Science**

Consent of department required. Science concentrators having completed a range of courses, such as BIOLOGY 171,172 and 173; BIOLOGY 225, 281, 305 or EEB 390; CHEM 130, 210 or 211; PHYSICS 140 or 160; or EARTH 119. (2). (BS). May not be repeated for credit.

**EEB 498. The Ecology of Agroecosystems**

A course in Ecology. (3). (BS). May not be repeated for credit. F.

**EEB 499 / MCDB 499. Responsible Conduct of Research and Scholarship in Biology**

Prior or concurrent enrollment in MCDB or EEB 300. (1). (BS). May not be repeated for credit. Offered mandatory credit/no credit.

**EEB 556. Field Botany of Northern Michigan**

A course in Systematic Botany (EEB 459). (5 in the half-term). (BS). May not be repeated for credit. Satisfies a Biology laboratory requirement.

## Courses in LSA Economics

### Economics (ECON)

**ECON 101. Principles of Economics I**

High school algebra and geometry. (4; 3 in the half-term). (SS). (QR/2). May not be repeated for credit. ECON 101 and 102 are required as prerequisites to an Economics major and to upper-level courses in Economics. F, W, Sp/Su.

**ECON 102. Principles of Economics II**

ECON 101. (4; 3 in the half-term). (SS). (QR/2). May not be repeated for credit. ECON 101 and 102 are required as prerequisites to an Economics major and to upper-level courses in Economics. ECON 102 should not be taken without having taken ECON 101. F, W, Sp, Su.

**ECON 108. Introductory Microeconomics Workshop**

First-year standing and concurrent enrollment in ECON 101. (1). (SS). May be elected twice for credit. May be elected more than once in the same term. Offered mandatory credit/no credit.

**ECON 140. First-Year Seminar in Economics**

(3). (ID). May not be repeated for credit.

**ECON 195. Seminar in Introductory Economics**

(3). (SS). May not be repeated for credit.

**ECON 208. Intermediate Microeconomics Workshop**

ECON 101 (concurrent or previous). (1). (SS). May be elected twice for

credit. May be elected more than once in the same term. Offered mandatory credit/no credit.

#### **ECON 230. Honors Core in Economics**

Consent of department required. (4). (SS). May be elected twice for credit. May be elected more than once in the same term.

#### **ECON 240. Honors Core Writing in Economics**

Consent of department required. (4). (SS). May be elected twice for credit. May be elected more than once in the same term.

#### **ECON 251. Introduction to Statistics and Econometrics II**

With a minimum grade of C, MATH 115, 116, 121, 156, 185, 186, 215, 255, 256, or 285 and with a minimum grade of C-, either ECON 249, or STATS 250, or Stats 280, or ECON 451, or IOE 265, or STATS 412, or STATS 426. (Prerequisites enforced at registration.) (4). (BS). (QR/1). May not be repeated for credit. No credit granted to those who have completed or are enrolled in ECON 452 or ECON 454. Students may take only one of the following courses for credit towards graduation: ECON 251, ECON 452, and ECON 454.

#### **ECON 290. Topics in Economics**

(3). May be repeated for a maximum of 6 credits.

#### **ECON 309. Experimental Economics**

ECON 101 (completed with a minimum grade of C or better). (Prerequisites enforced at registration.) ECON 102 (unless ECON 101 completed with B or higher). (3). (SS). (QR/1). May not be repeated for credit. No credit granted to those who have completed or are enrolled in ECON 109.

#### **ECON 310. Money and Banking**

ECON 102 (completed with a minimum grade of C or better). (Prerequisites enforced at registration.) (3). (SS). May not be repeated for credit.

#### **ECON 320. Survey of Labor Economics**

ECON 101 (completed with a minimum grade of C or better). (Prerequisites enforced at registration.) ECON 102 (unless ECON 101 completed with B or higher). (3). (SS). May not be repeated for credit.

#### **ECON 323. Economics and Gender**

ECON 101 (completed with a minimum grade of C or better). (Prerequisites enforced at registration.) ECON 102 (unless ECON 101 completed with B or higher). (3). (SS). May not be repeated for credit.

#### **ECON 325. Economics of Education**

ECON 101 completed with a minimum grade of C or better. (Prerequisites enforced at registration.) ECON 102 (unless ECON 101 completed with a B or higher) and STATS 250. (3). (SS). May not be repeated for credit. No credit in ECON 395: TopicID #12, The Economics of Education (taken prior to Fall 2014).

#### **ECON 330. American Industries**

ECON 101 (completed with a minimum grade of C or better). (Prerequisites enforced at registration.) ECON 102 (unless ECON 101

completed with B or higher). (4). (SS). May not be repeated for credit.

#### **ECON 340. International Economics**

ECON 101 (completed with a minimum grade of C or better). (Prerequisites enforced at registration.) ECON 102 (unless ECON 101 completed with B or higher). (3). (SS). May not be repeated for credit.

#### **ECON 360. The Developing Economies**

ECON 101 (completed with a minimum grade of C or better). (Prerequisites enforced at registration.) ECON 102 (unless ECON 101 completed with B or higher). (3). (SS). May not be repeated for credit.

#### **ECON 370 / ENVIRON 375. Environmental and Resource Economics**

ECON 101. (Prerequisites enforced at registration.) (3). (SS). May not be repeated for credit. No credit granted to those who have completed or are enrolled in ECON 471 or 472, or NRE 571 or 583.

#### **ECON 395. Topics in Microeconomics and Microeconomic Policy**

ECON 101 (completed with a minimum grade of C or better). (Prerequisites enforced at registration.) ECON 102 (unless ECON 101 completed with B or higher). (1 - 3). May be repeated for a maximum of 6 credits. May be elected more than once in the same term.

#### **ECON 396. Topics in Macroeconomics and Macroeconomic Policy**

ECON 102 (completed with a minimum grade of C or better). (Prerequisites enforced at registration.) (1 - 3). May be repeated for a maximum of 6 credits. May be elected more than once in the same term.

#### **ECON 401. Intermediate Microeconomic Theory**

MATH 115, 116, 121, 156, 176, 185, 186, 215, 285, 295, or 296; with a grade of C or better. (Prerequisites enforced at registration.) ECON 101 and 102. (4). (BS). (QR/1). May not be repeated for credit. F, W, Sp. Rackham credit requires additional work.

#### **ECON 402. Intermediate Macroeconomic Theory**

MATH 115, 116, 121, 156, 176, 185, 186, 215, 285, 295, or 296, (completed with a minimum grade of C or better). (Prerequisites enforced at registration.) It is strongly recommended that students take ECON 401 before 402. (4). (BS). (QR/1). May not be repeated for credit. F, W, Su. Rackham credit requires additional work.

#### **ECON 408 / PHIL 408. Philosophy and Economics**

ECON 401 (completed with a minimum grade of C- or better). (Prerequisites enforced at registration.) (3). May not be repeated for credit. Rackham credit requires additional work.

#### **ECON 409. Game Theory**

ECON 401 (completed with a minimum grade of C- or better); OR Graduate Standing. (Prerequisites enforced at registration.) MATH 215. (4). (BS). May not be repeated for credit.

#### **ECON 411. Monetary and Financial Theory**

ECON 402 with a grade of at least C-; or Graduate standing. (Prerequisites enforced at registration.) STATS 250, or ECON 451, or ECON 453, or ECON 251, or ECON 452, or ECON 454. (3). May not be

repeated for credit. Rackham credit requires additional work.

#### **ECON 412. Topics in Macroeconomics**

ECON 402 with a grade of at least C-; or Graduate standing. (Prerequisites enforced at registration.) (3). May be elected twice for credit. May be elected more than once in the same term. Rackham credit requires additional work.

#### **ECON 414. Growth Theory**

ECON 401 and 402 with a grade of at least C-; or Graduate standing. (Prerequisites enforced at registration.) (4). May not be repeated for credit.

#### **ECON 418. Business Cycles**

ECON 402 with a grade of at least C-; or Graduate standing. (Prerequisites enforced at registration.) (3). May not be repeated for credit. Rackham credit requires additional work.

#### **ECON 421. Labor Economics I**

ECON 401 with a grade of at least C-; or Graduate standing. (Prerequisites enforced at registration.) (3). May not be repeated for credit. Rackham credit requires additional work.

#### **ECON 422. The Structure of Labor Markets**

ECON 401 with a grade of at least C-; or Graduate standing. (Prerequisites enforced at registration.) (3). May not be repeated for credit. Rackham credit requires additional work.

#### **ECON 429. Migration Economics and Policy**

ECON 401 (completed with a minimum grade of C- or better); OR Graduate standing. (Prerequisites enforced at registration.) STATS 250 or ECON 451. (3 - 4). May not be repeated for credit. Rackham credit requires additional work.

#### **ECON 431. Industrial Organization and Performance**

ECON 401 with a grade of at least C-; or Graduate standing. (Prerequisites enforced at registration.) (3). May not be repeated for credit. Rackham credit requires additional work.

#### **ECON 432. Government Regulation of Industry**

ECON 401 with a grade of at least C-; or Graduate standing. (Prerequisites enforced at registration.) (3 - 4). May not be repeated for credit. W. Rackham credit requires additional work.

#### **ECON 435. Financial Economics**

ECON 401 (completed with a minimum grade of C- or better); or Graduate standing. (Prerequisites enforced at registration.) STATS 250 or ECON 451. (4). May not be repeated for credit. Rackham credit requires additional work.

#### **ECON 437. Energy Economics and Policy**

ECON 401 (completed with a minimum grade of C- or better); OR graduate standing. (Prerequisites enforced at registration.) (3). May not be repeated for credit. Rackham credit requires additional work.

#### **ECON 441. International Trade Theory**

ECON 401 with a grade of at least C-; or Graduate standing. (Prerequisites enforced at registration.) (3). May not be repeated for credit. Rackham credit requires additional work.

#### **ECON 442. International Finance**

ECON 402 with a grade of at least C-; or Graduate standing. (Prerequisites enforced at registration.) (4). May not be repeated for credit. Rackham credit requires additional work.

#### **ECON 444. The European Economy**

ECON 401 with a grade of at least C-; or graduate standing. (Prerequisites enforced at registration.) (4). May not be repeated for credit. Rackham credit requires additional work.

#### **ECON 445. The Economy of the People's Republic of China**

ECON 401 (completed with a minimum grade of C- or better); OR Graduate standing. (Prerequisites enforced at registration.) (3). May not be repeated for credit. Rackham credit requires additional work.

#### **ECON 451. Intermediate Introduction to Statistics and Econometrics I**

With a minimum grade of C-, MATH 116, 156, 186, 215, 255, 256 or 285. (Prerequisites enforced at registration.) (4). (BS). (QR/1). May not be repeated for credit. No credit granted to those who have completed or are enrolled in ECON 405 or ECON 453. Students may take only two of the following courses for credit towards graduation: STATS 250 or ECON 249, ECON 451, and ECON 453. May not be included in an Economics minor.

#### **ECON 452. Intermediate Introduction to Statistics and Econometrics II**

With a minimum grade of C-, ECON 451 or ECON 453, or STATS 426. (Prerequisites enforced at registration.) (4). (BS). May not be repeated for credit. No credit granted to those who have completed or are enrolled in ECON 406 or ECON 454, or ECON 251. Students may take only one of the following courses for credit towards graduation: ECON 251, ECON 452, and ECON 454. One (but only one) of ECON 452 and 454 may be counted toward an Economics minor. Rackham credit requires additional work.

#### **ECON 453. Advanced Introduction to Statistics and Econometrics I**

MATH 215, 255, or 285 and MATH 217 with a minimum grade of C-; or graduate standing. (Prerequisites enforced at registration.) (3 - 4). (BS). May not be repeated for credit. Students may take only two of the following courses for credit towards graduation: ECON 249, STATS 250, ECON 451, and ECON 453. May not be included in an Economics minor. Rackham credit requires additional work.

#### **ECON 454. Advanced Introduction to Statistics and Econometrics II**

ECON 453 with a minimum grade of C-; or graduate standing. (Prerequisites enforced at registration.) (3 - 4). (BS). May not be repeated for credit. No credit granted to those who have completed or are enrolled in IOE 265, or STATS 280, 400, or 412. Students may take only two of the following courses for credit towards graduation: ECON 251, ECON 452, and ECON 454. One (but only one) of ECON 452 and 454 may be counted toward an Economics minor. Rackham credit requires additional work.



**ECON 457. Financial Econometrics**

ECON 401 and ECON 454, with a minimum grade of C in each; or graduate standing. (Prerequisites enforced at registration.) Students may request permission of instructor if they are taking ECON 454 concurrently or if they took ECON 452 instead of ECON 454. (3). (BS). May not be repeated for credit. Rackham credit requires additional work.

**ECON 461. The Economics of Development I**

ECON 401 with a grade of at least C-; or Graduate standing. (Prerequisites enforced at registration.) (4; 3 in the half-term). May not be repeated for credit. Rackham credit requires additional work.

**ECON 462. The Economics of Development II**

ECON 401 with a grade of at least C-; or Graduate standing. (Prerequisites enforced at registration.) ECON 360 or 461. (3). May not be repeated for credit. Rackham credit requires additional work.

**ECON 466. Economics of Population**

ECON 401 completed with a minimum grade of C- or better; or graduate standing. (Prerequisites enforced at registration.) (3). May not be repeated for credit. Rackham credit requires additional work.

**ECON 472 / NRE 583. Intermediate Natural Resource Economics**

ECON 401 (completed with a minimum grade of C- or better), OR NRE 570; OR graduate standing. (Prerequisites enforced at registration.) NRE 570 or PI. (3). May not be repeated for credit.

**ECON 481. Government Expenditures**

ECON 401 with a grade of at least C-; or Graduate standing. (Prerequisites enforced at registration.) (3). May not be repeated for credit. Rackham credit requires additional work.

**ECON 482. Government Revenues**

ECON 401 with a grade of at least C-; or Graduate standing. (Prerequisites enforced at registration.) (3). May not be repeated for credit. Rackham credit requires additional work.

**ECON 485. Law and Economics**

ECON 401 with a grade of at least C-; or Graduate standing. (Prerequisites enforced at registration.) (3). May not be repeated for credit. Rackham credit requires additional work.

**ECON 490. Topics in Microeconomics**

ECON 401 (completed with a minimum grade of C- or better); OR Graduate standing. (Prerequisites enforced at registration.) STATS 250, or ECON 249, or STATS 426, or ECON 451. (3). May be elected twice for credit. May be elected more than once in the same term.

**ECON 491. The History of the American Economy**

ECON 401 (completed with a minimum grade of C- or better); OR Graduate standing. (Prerequisites enforced at registration.) (3). May not be repeated for credit. Rackham credit requires additional work.

**ECON 495. Seminar in Economics**

ECON 401 and 402, each with a grade of C- or better. (Prerequisites

enforced at registration.) ECON 452 or ECON 454. (3). May be repeated for a maximum of 6 credits.

**ECON 496. History of Economic Thought**

ECON 401 (completed with a minimum grade of C- or better); OR graduate standing. (Prerequisites enforced at registration.) (3). May not be repeated for credit. Rackham credit requires additional work.

**ECON 498. Honors Independent Research**

Consent of instructor required. Open only to students admitted to Honors concentration in economics. Permission of instructor. (1 - 4). (INDEPENDENT). May be repeated for a maximum of 8 credits. Continuing Course. Y grade can be reported at end of the first-term to indicate work in progress. At the end of the second term of ECON 498, the final grade is posted for both term's elections.

**ECON 499. Independent Research**

Consent of instructor required. Written permission of staff member supervising research, and permission of the Economics concentration advisor. (1 - 4). (INDEPENDENT). May be repeated for a maximum of 8 credits. No more than four credits may be used in an Economics concentration program. Rackham credit requires additional work.

## Courses in LSA English Language & Literature

### English Language and Literature (ENGLISH)

**ENGLISH 124. Academic Writing and Literature**

(4). (FYWR). May not be repeated for credit.

**ENGLISH 125. Writing and Academic Inquiry**

(4). (FYWR). May not be repeated for credit. F, W, Sp, Su.

**ENGLISH 140. First-Year Seminar on English Language and Literature**

Enrollment restricted to first-year students, including those with sophomore standing. (3). (HU). May not be repeated for credit.

**ENGLISH 203. Introduction to Language and Rhetoric**

(3 - 4; 3 in the half-term). (HU). May be repeated for a maximum of 8 credits.

**ENGLISH 215. Introduction to Women and Literature**

(3 - 4; 3 in the half-term). (HU). May not be repeated for credit.

**ENGLISH 216. Introduction to Disability Studies**

(3 - 4; 2 - 3 in the half-term). (HU). May not be repeated for credit.

**ENGLISH 221. Literature and Writing Outside the Classroom**

(2 - 3). (HU). May be elected twice for credit. May be elected more than once in the same term.

**ENGLISH 223. Creative Writing**

(3). (CE). May not be repeated for credit. F, W, Sp.

**ENGLISH 225. Academic Argumentation**

Completion of the First-Year Writing Requirement. (4; 3 in the half-term). (HU). May not be repeated for credit. F, W, Sp.

**ENGLISH 226. Directed Writing**

Consent of instructor required. (1 - 3). (INDEPENDENT). May be repeated for a maximum of 3 credits. F, W, Sp/Su, Sp, Su.

**ENGLISH 227 / THTREMUS 227. Introductory Playwriting**

(3; 2 in the half-term). (CE). May not be repeated for credit.

**ENGLISH 229. Professional Writing**

Completion of the First-Year Writing Requirement. (4). May not be repeated for credit.

**ENGLISH 230. Introduction to Short Story and Novel**

(3). (HU). May not be repeated for credit.

**ENGLISH 231. Honors Core in English Studies**

Consent of department required. (4). (HU). May be elected twice for credit. May be elected more than once in the same term.

**ENGLISH 232. Introduction to Visual Culture**

(3 - 4; 3 in the half-term). (HU). May be repeated for a maximum of 6 credits. May be elected more than once in the same term.

**ENGLISH 235. Introduction to Autobiography**

(3). (HU). May not be repeated for credit.

**ENGLISH 240. Introduction to Poetry**

(3). (HU). May not be repeated for credit.

**ENGLISH 241. Honors Core Writing in English Studies**

Consent of department required. (4). (HU). May be elected twice for credit. May be elected more than once in the same term.

**ENGLISH 242. Interdisciplinary Studies in English**

(1 - 4). (ID). May be elected twice for credit.

**ENGLISH 245 / RCHUMS 280 / THTREMUS 211. Introduction to Drama and Theatre**

(3; 2 in the half-term). (HU). May not be repeated for credit. No credit granted to those who have completed or are enrolled in RCHUMS 281.

**ENGLISH 258 / JUDAIC 258 / RELIGION 258. The Bible as Literature**

(3). (HU). May not be repeated for credit.

**ENGLISH 260. Introduction to British Literature**

(3). (HU). May not be repeated for credit.

**ENGLISH 270. Introduction to American Literature**

(3). (HU). May not be repeated for credit.

**ENGLISH 274 / AAS 271. Introduction to Afro-American Literature**

AAS 111 (CAAS 111). (3; 2 in the half-term). (HU). (R&E). May not be repeated for credit.

**ENGLISH 280. Introduction to Digital Cultures**

(3). (HU). May not be repeated for credit.

**ENGLISH 282 / AMCULT 232 / NATIVEAM 232. Native American Literature**

(4; 3 in the half-term). (HU). May not be repeated for credit.

**ENGLISH 290. Themes in Language and Literature**

(3 - 4; 3 in the half-term). (HU). May be repeated for a maximum of 6 credits.

**ENGLISH 292. Topics in Language and Literature**

(1 - 2; 1 in the half-term). (HU). May be elected twice for credit. May be elected more than once in the same term.

**ENGLISH 298. Introduction to Literary Studies**

(3). (HU). May not be repeated for credit. Prerequisite for the English major and English Honors Plan.

**ENGLISH 299. Directed Study**

Consent of instructor required. (1 - 3). (INDEPENDENT). May be repeated for a maximum of 3 credits. F, W, Sp/Su, Sp, Su.

**ENGLISH 303. Language and Rhetorical Studies**

Recommended for students interested in focusing their study of English on language matters. (4; 3 in the half-term). (HU). May be repeated for a maximum of 8 credits. May be elected more than once in the same term.

**ENGLISH 305. Exploring the English Language**

Recommended for students preparing to teach English. (4; 3 in the half-term). (HU). May not be repeated for credit.

**ENGLISH 308. History of the English Language**

(3 - 4; 3 in the half-term). (HU). May not be repeated for credit.

**ENGLISH 311 / THTREMUS 328. Theater of Politics**

Consent of department required. (3). (HU). May not be repeated for credit.

**ENGLISH 312 / AMCULT 354 / ENVIRON 354. Camp Davis: History and Literature of the Rockies**

Consent of department required. (3 in the half-term). (HU). May not be repeated for credit. Su at Camp Davis, Wyoming. May not be taken pass/fail.

**ENGLISH 313. Topics in Literary Studies**

(4; 3 in the half-term). (HU). May be repeated for a maximum of 8

credits. May be elected more than once in the same term.

**ENGLISH 314 / WOMENSTD 314. Gender and Sexuality Studies in Literature**

(3 - 4; 2 - 3 in the half-term). May be repeated for a maximum of 6 credits. May be elected more than once in the same term.

**ENGLISH 315 / WOMENSTD 315. Women and Literature**

(3 - 4; 3 in the half-term). (HU). May be repeated for a maximum of 6 credits.

**ENGLISH 316. Disability Studies**

(3). (HU). May not be repeated for credit.

**ENGLISH 317. Literature and Culture**

(3). (HU). May be repeated for a maximum of 6 credits. May be elected more than once in the same term.

**ENGLISH 318. Genre Studies**

(3). (HU). May not be repeated for credit.

**ENGLISH 319. Literature and Social Change**

(3). (HU). May be repeated for a maximum of 6 credits. May be elected more than once in the same term.

**ENGLISH 320. Literature and the Environment**

(3 - 4; 2 - 3 in the half-term). (HU). May not be repeated for credit.

**ENGLISH 321. Internship**

Concentration in English. (1). (EXPERIENTIAL). May be repeated for a maximum of 4 credits. May be elected more than once in the same term. Students may count up to 4 credits of ENGLISH 321 toward their elective concentration credits. Offered mandatory credit/no credit.

**ENGLISH 323. Creative Writing: Fiction**

ENGLISH 223; submission of portfolio and application required. (3). (CE). May be repeated for a maximum of 6 credits. May be elected more than once in the same term.

**ENGLISH 324. Creative Writing: Poetry**

ENGLISH 223; submission of portfolio and application required. (3). (CE). May be repeated for a maximum of 6 credits. May be elected more than once in the same term.

**ENGLISH 325. Art of the Essay**

Completion of the First-Year Writing Requirement. (3). May not be repeated for credit. F, W, Sp, Su.

**ENGLISH 326. Community Writing and Public Culture**

Completion of the First-Year Writing Requirement. (3; 2 in the half-term). (CE). May be repeated for a maximum of 6 credits.

**ENGLISH 327 / THREMUS 327. Intermediate Playwriting**

ENGLISH 227. (3; 2 in the half-term). May not be repeated for credit.

**ENGLISH 328. Writing and the Environment**

(3). (CE). May be elected twice for credit.

**ENGLISH 329 / ENVIRON 329. Environmental Writing and Great Lakes Literature**

Consent of department required. (5 in the half-term). (HU). May not be repeated for credit.

**ENGLISH 330 / SAC 330. Major Directors**

SAC 236. (3). (HU). May be repeated for a maximum of 9 credits. May be elected more than once in the same term.

**ENGLISH 331 / SAC 331. Film Genres and Types**

SAC 236. (3). (HU). May be repeated for a maximum of 9 credits. May be elected more than once in the same term.

**ENGLISH 332. Visual Culture**

(3 - 4; 2 - 3 in the half-term). (HU). May be elected twice for credit. May be elected more than once in the same term.

**ENGLISH 335. Autobiography**

(3 - 4; 2 - 3 in the half-term). (HU). May not be repeated for credit.

**ENGLISH 340. Studies in Poetry**

(3). (HU). May not be repeated for credit.

**ENGLISH 341. Fantasy**

(3 - 4; 2 - 3 in the half-term). (HU). May not be repeated for credit.

**ENGLISH 345. The New Essay**

Completion of the First Year Writing Requirement. (3). (CE). May not be repeated for credit.

**ENGLISH 346. Performance Studies**

(3). (HU). May not be repeated for credit.

**ENGLISH 349 / THREMUS 323. American Theatre and Drama**

(3). (HU). May not be repeated for credit.

**ENGLISH 350 / MEMS 350. Literature in English to 1660**

(4; 3 in the half-term). May not be repeated for credit. F.

**ENGLISH 351. Literature in English, 1660-1830**

(3 - 4; 3 in the half-term). (HU). May not be repeated for credit. W.

**ENGLISH 352. Literature in English, 1830-Present**

(3 - 4; 3 in the half-term). May not be repeated for credit.

**ENGLISH 360. The Rise of the Novel**

(3). May not be repeated for credit.

**ENGLISH 361. The Victorian Novel**

(3). (HU). May not be repeated for credit.

**ENGLISH 362. The American Novel**

(3 - 4; 3 in the half-term). May not be repeated for credit.

**ENGLISH 363. The Modern Novel**

(3 - 4; 3 in the half-term). May not be repeated for credit.

**ENGLISH 364. The Contemporary Novel**

(3 - 4; 2 - 3 in the half-term). May not be repeated for credit.

**ENGLISH 367 / MEMS 367. Shakespeare's Principal Plays**

(3 - 4; 3 in the half-term). (HU). May not be repeated for credit.

**ENGLISH 375. World Literatures in English**

(3). (HU). May not be repeated for credit.

**ENGLISH 380 / AAS 381 / WOMENSTD 381. Intersections: Fictions and Feminisms of the African Diaspora**

AAS 111 (CAAS 111). (3). May not be repeated for credit.

**ENGLISH 381 / AMCULT 324 / ASIANPAM 324. Asian American Literature**

(3). (HU). May not be repeated for credit.

**ENGLISH 382 / AMCULT 328 / NATIVEAM 328. Studies in Native American Literature**

(3). (HU). May not be repeated for credit.

**ENGLISH 383 / JUDAIC 389. Jewish Literature**

(3). (HU). May not be repeated for credit.

**ENGLISH 384 / AAS 384 / AMCULT 406. Caribbean Literature**

AAS 202. (3). May be repeated for a maximum of 6 credits.

**ENGLISH 385 / AAS 385. African Literature**

AAS 200. (3). (HU). May be elected twice for credit.

**ENGLISH 387 / AMCULT 327 / LATINOAM 327. Latina/Latino Literature of the U.S.**

(3). (HU). May not be repeated for credit. Taught in English.

**ENGLISH 388 / AMCULT 325 / ASIANPAM 325. Pacific Literary and Cultural Studies**

(3). (HU). May not be repeated for credit.

**ENGLISH 389 / AAS 346 / HISTORY 362. Literature in African History**

(3). (HU). (R&E). May not be repeated for credit.

**ENGLISH 390. Topics in Literary Criticism and Theory**

(3). May not be repeated for credit.

**ENGLISH 397. Honors Junior Seminar**

Junior or senior standing, and permission of instructor. (3). May be repeated for a maximum of 9 credits.

**ENGLISH 398. Junior Seminar in English Studies**

(4; 3 in the half-term). May not be repeated for credit.

**ENGLISH 403. Topics in Language and Rhetorical Studies**

(3). May be elected twice for credit. May be elected more than once in the same term.

**ENGLISH 405. Theories of Writing**

(3). May not be repeated for credit.

**ENGLISH 407. Topics in English Language and Literature**

(3). May be elected twice for credit. May be elected more than once in the same term.

**ENGLISH 408 / LING 408. Varieties of English**

(3). May not be repeated for credit.

**ENGLISH 409. Old English**

(3). May not be repeated for credit.

**ENGLISH 410. Middle English**

(3). May not be repeated for credit.

**ENGLISH 411. Art of the Film**

(3). May not be repeated for credit.

**ENGLISH 415 / WOMENSTD 414. Studies in Women and Literature**

(3). May not be repeated for credit.

**ENGLISH 418. The Graphic Narrative**

(3). May not be repeated for credit. Rackham credit requires additional work.

**ENGLISH 420. Technology and the Humanities**

(3). May not be repeated for credit.

**ENGLISH 423. Advanced Fiction Writing**

Consent of instructor required. Open to seniors and graduate students. (3). May be repeated for a maximum of 6 credits.

**ENGLISH 424. Advanced Poetry Writing**

Consent of instructor required. (3). May be repeated for credit.

**ENGLISH 425. Advanced Essay Writing**

Open only to seniors who have completed the First-Year Writing Requirement. (3). May not be repeated for credit.

**ENGLISH 426. Directed Writing**

Consent of instructor required. Junior standing. (1 - 4).

(INDEPENDENT). May be repeated for a maximum of 6 credits. F, W, Sp/Su, Sp, Su.

**ENGLISH 427 / THREMUS 427. Advanced Playwriting**  
Consent of instructor required. ENGLISH 327. (3; 2 in the half-term).  
May be repeated for a maximum of 6 credits.

**ENGLISH 428. Senior Creative Writing Tutorial**  
Consent of instructor required. ENGLISH 223, 323, and 423/429. (3).  
May not be repeated for credit.

**ENGLISH 432. Studies in Visual Culture**  
(3; 2 - 3 in the half-term). May be elected twice for credit. May be  
elected more than once in the same term.

**ENGLISH 440. Modern Poetry**  
(3). May not be repeated for credit.

**ENGLISH 441. Contemporary Poetry**  
(3). May not be repeated for credit.

**ENGLISH 442. Studies in Poetry**  
(3). May not be repeated for credit.

**ENGLISH 443 / THREMUS 321. History of Theatre I**  
(3). May not be repeated for credit.

**ENGLISH 444 / THREMUS 322. History of Theatre II**  
(3). May not be repeated for credit.

**ENGLISH 447. Modern Drama**  
(3). May not be repeated for credit.

**ENGLISH 449. Medieval Drama**  
(3). May not be repeated for credit.

**ENGLISH 450. Studies in Medieval and Renaissance Literature**  
(3). May be repeated for a maximum of 8 credits. May be elected more  
than once in the same term.

**ENGLISH 451. Studies in Literature, 1600-1830**  
(3). May be repeated for credit. May be elected more than once in the  
same term.

**ENGLISH 452. Studies in Literature, 1830-Present**  
(3). May not be repeated for credit.

**ENGLISH 460. Studies in the Novel**  
(3). May be repeated for a maximum of 6 credits. May be elected more  
than once in the same term.

**ENGLISH 463. Modern British Literature**

(3). May not be repeated for credit.

**ENGLISH 464. Studies in Individual Authors**  
(3). May be repeated for credit. May be elected more than once in the  
same term.

**ENGLISH 465 / MEMS 465. Chaucer: The Canterbury Tales**  
(3). May not be repeated for credit.

**ENGLISH 467. Topics in Shakespeare**  
Prior course work in Shakespeare is recommended. (3). May not be  
repeated for credit.

**ENGLISH 469. Milton**  
(3). May not be repeated for credit.

**ENGLISH 470. Colonial and Revolutionary American Literature**  
(3). May not be repeated for credit.

**ENGLISH 471. Nineteenth-Century American Literature**  
(3). May not be repeated for credit.

**ENGLISH 472. Twentieth-Century American Literature**  
(3). May not be repeated for credit.

**ENGLISH 473. Topics in American Literature**  
(3; 2 - 3 in the half-term). May be repeated for a maximum of 6  
credits. May be elected more than once in the same term.

**ENGLISH 490. History of Literary Criticism and Theory**  
(3). May not be repeated for credit.

**ENGLISH 492. Special Topics in Language and Literature**  
(1 - 2; 1 in the half-term). May be elected twice for credit. May be  
elected more than once in the same term.

**ENGLISH 495. Honors Colloquium: Drafting the Thesis**  
Consent of instructor required. Admission to the English Honors  
Program and permission of instructor. (3). May not be repeated for  
credit. Continuing Course. Y grade can be reported at end of the first-  
term to indicate work in progress. At the end of the second term, the  
final grade is posted for both term's elections.

**ENGLISH 496. Honors Colloquium: Completing the Thesis**  
Consent of instructor required. ENGLISH 492, admission to the English  
Honors Program, and permission of instructor. (1 - 3). May not be  
repeated for credit. Continuing Course. Y grade can be reported at end  
of the first-term to indicate work in progress. At the end of the second  
term, the final grade is posted for both term's elections. W.

**ENGLISH 498. Directed Teaching**  
Consent of instructor required. (3; 2 in the half-term). (INDEPENDENT).  
May be repeated for a maximum of 9 credits.

**ENGLISH 499. Directed Study**

Consent of instructor required. Junior standing. (1 - 4). (INDEPENDENT). May be repeated for a maximum of 6 credits. F, W, Sp, Sp/Su, Su.

## Courses in LSA English Language Institute

### English Language Institute (ELI)

**ELI 351 / LING 351 / PSYCH 344. Second Language Acquisition**

LING 111 or 210. (3). (BS). May not be repeated for credit.

**ELI 390 / EDUC 390 / LING 390 / RCSSCI 390. Community-Engaged Learning in ESL Teaching Contexts**

(3). (EXPERIENTIAL). May be elected three times for credit.

**ELI 391. English as a Second Language Topics**

(3). May be elected twice for credit. A maximum of four ELI credits may be counted toward a degree.

**ELI 392. Topics in English for Non-native Speakers**

Consent of instructor required. (2). May not be repeated for credit. A maximum of four ELI credits may be counted toward a degree.

**ELI 395 / AMCULT 361 / EDUC 395 / LATINOAM 361 / LING 391 / RCSSCI 395. Principles and Practices of Teaching ESL in Migrant Communities**

(3). (EXPERIENTIAL). May be elected three times for credit.

**ELI 396 / AMCULT 362 / EDUC 396 / LATINOAM 362 / LING 396 / RCSSCI 396. Migrant Community Outreach and ESL Teaching Practicum**

ELI 395; completed with a minimum grade of C or better. (Prerequisites enforced at registration.) (2 - 3). (EXPERIENTIAL). May be elected three times for credit.

**ELI 399. Individual Research and Study**

Permission of Instructor. (1 - 4). (INDEPENDENT). May be repeated for a maximum of 4 credits. A maximum of four ELI credits may be counted toward a degree.

## Courses in LSA Environment

### Program in the Environment (ENVIRON)

**ENVIRON 101 / BIOLOGY 101. Food, Energy, and Environmental Justice**

(4). (NS). (BS). May not be repeated for credit. Credit is granted for a combined total of 17 credits elected in introductory biology.

**ENVIRON 102 / CLIMATE 102 / EARTH 122. Extreme Weather**

(3). (NS). (BS). May not be repeated for credit.

**ENVIRON 105 / CHEM 105 / CLIMATE 105 / ENSCEN 105. Our Changing Atmosphere**

(3). (NS). (BS). May not be repeated for credit.

**ENVIRON 110 / AOSS 171 / BIOLOGY 110 / EARTH 171 / ENSCEN 171 / RCNSCI 110. Introduction to Global Change: The Science Behind Sustainability**

(4). (NS). (BS). May not be repeated for credit. Credit is granted for a combined total of 17 credits elected in introductory biology. Satisfies the geography requirement for State of Michigan certification for social studies teachers. F.

**ENVIRON 111 / AOSS 172 / EARTH 172 / ENSCEN 172 / GEOG 111. Global Change: The Sustainability Challenge**

(4). (ID). (BS). (QR/2). May not be repeated for credit. Satisfies the geography requirement for State of Michigan certification for social studies teachers. W.

**ENVIRON 116 / EARTH 116. Introductory Geology in the Field**

(5 in the half-term). (NS). (BS). May not be repeated for credit. Reduced credit: Students who have completed GEOSCI 117 or EARTH 117 or ENVIRON 117 receive 2 credits; GEOSCI 119 or 120 or EARTH 119 or 120 or ENVIRON 119 or 120, 3 credits; GEOSCI 205 AND 206 or EARTH 205 AND 206 or ENVIRON 206, 3 credits; one of GEOSCI 205 or 206 or EARTH 205 or 206 or ENVIRON 206, 4 credits. Su at Camp Davis, Wyoming.

**ENVIRON 118 / EARTH 118. Introductory Geology Laboratory**

Prior or concurrent enrollment in EARTH 119, or 205 and 206, or 284. (1). (NS). (BS). May not be repeated for credit. No credit if completed an introductory course in geology (EARTH/ENVIRON 116, 117, or 120). F, W.

**ENVIRON 119 / EARTH 119. Introductory Geology Lectures**

Concurrent enrollment in ENVIRON or EARTH (GEOSCI) 118 for the lab. (3 - 4). (NS). (BS). May not be repeated for credit. No credit granted to those who have completed GEOSCI 116, 117, or 120, and no credit granted to those who have completed or are enrolled in EARTH 116, 117, or 120 or ENVIRON 116, 117, or 120. No credit granted to those who have completed both EARTH 205 (or GEOSCI 205) AND one of GEOSCI 206 or EARTH 206 or ENVIRON 206; Three credits granted to those who have completed one of GEOSCI 205 or 206, EARTH 205 or 206, or ENVIRON 206. F, W.

**ENVIRON 120 / EARTH 120. Geology of National Parks and Monuments**

(4). (NS). (BS). May not be repeated for credit. No credit if completed EARTH (GEOSCI)/ENVIRON 116, 117, or 119, or both EARTH (GEOSCI) 205 AND EARTH (GEOSCI)/ENVIRON 206. Only 3 credits with EARTH (GEOSCI) 205 or EARTH (GEOSCI)/ENVIRON 206.

**ENVIRON 139. First-Year Seminar in the Environment**

Enrollment restricted to first-year students, including those with sophomore standing. (3). (ID). May not be repeated for credit.

**ENVIRON 144 / EARTH 144. Climate Change in the Age of Humans**

High school science and math recommended. Enrollment restricted to

first-year students, including those with sophomore standing. (3). (NS). (BS). May not be repeated for credit. Those with credit for GEOSCI 111 or 331 or EARTH 111 or 331 may elect EARTH 144 for only 2 credits.

**ENVIRON 152. Topics in Environmental Social Science**

(1 - 4). (SS). May be repeated for a maximum of 9 credits. May be elected more than once in the same term.

**ENVIRON 153. Topics in Environmental Natural Science**

(1 - 4). (NS). (BS). May be repeated for a maximum of 9 credits. May be elected more than once in the same term.

**ENVIRON 154. Topics in Culture and Environment**

(1 - 4). (HU). May be repeated for a maximum of 9 credits. May be elected more than once in the same term.

**ENVIRON 155. Interdisciplinary Environmental Topics**

(1 - 4). (ID). May be repeated for a maximum of 9 credits. May be elected more than once in the same term.

**ENVIRON 167 / ANTHRBIO 167. Evolution, Environment, and Global Health**

(4). (NS). (BS). May not be repeated for credit.

**ENVIRON 201 / RCNSCI 202. Ecological Issues**

(4). (NS). (BS). May not be repeated for credit.

**ENVIRON 202 / EARTH 202. Introduction to Earth and Environmental Sciences in the Rockies**

(5). (NS). (BS). May not be repeated for credit. No credit granted to those who have completed GEOSCI 201. No credit granted to those who have completed or are enrolled in EARTH 201 or ENVIRON 209 or GEOG 201.

**ENVIRON 203 / ORGSTUDY 203. Activism**

(3). (SS). May not be repeated for credit.

**ENVIRON 206 / EARTH 206. How the Earth Works: The Water Cycle and Environment**

(2). (NS). (BS). May not be repeated for credit. No credit granted to those who have completed GEOSCI 116 or 117 or 119 or 120, and no credit granted to those who have completed or are enrolled in EARTH 116 or 117 or 119 or 120 or ENVIRON 116 or 117 or 119 or 120. Those with credit for GEOSCI 109 or EARTH 109 may only elect EARTH 206 or ENVIRON 206 for 1 credit.

**ENVIRON 207. Sustainability and Society**

(3). (SS). May not be repeated for credit.

**ENVIRON 208 / ORGSTUDY 208. Business and the Natural Environment**

(3). (SS). May not be repeated for credit.

**ENVIRON 209 / EARTH 201 / GEOG 201. Introduction to Environmental Science and Geography**

(4; 3 in the half-term). (NS). (BS). May not be repeated for credit. No credit granted to those who have completed or are enrolled in GEOSCI 144 or 202 or EARTH 144 or 202 (or any combination thereof). Students who have completed EARTH 331 or GEOSCI 331 will receive only 3 credits. F.

**ENVIRON 211 / RCSSCI 211. Social Sciences and Environmental Problems**

(4). (SS). May not be repeated for credit.

**ENVIRON 222. Introduction to Environmental Justice**

(3). (SS). (R&E). May not be repeated for credit.

**ENVIRON 223 / HISTORY 223. Trashed! A History of Garbage in the Modern World**

(4; 3 in the half-term). (ID). May not be repeated for credit.

**ENVIRON 224 / HISTORY 224 / PUBPOL 224. Global Nuclear Proliferation**

(4; 3 in the half-term). (SS). May not be repeated for credit.

**ENVIRON 232 / EARTH 222. Introductory Oceanography**

(3). (NS). (BS). (QR/2). May not be repeated for credit. No credit granted to those who have completed or are enrolled in AOSS 203.

**ENVIRON 233 / EARTH 223. Introductory Oceanography, Laboratory**

(1). (NS). (BS). (QR/2). May not be repeated for credit.

**ENVIRON 235. Economics of Natural Resources and Environment**

(3). (SS). May not be repeated for credit.

**ENVIRON 236 / HISTORY 236. Environment and History in Preindustrial Europe**

(3). (ID). May not be repeated for credit.

**ENVIRON 237 / HISTORY 237. Global Environmental History**

(4; 3 in the half-term). (ID). May not be repeated for credit.

**ENVIRON 238 / ALA 238 / EARTH 238 / HISTORY 238 / NEAREAST 278. Zoom: A History of Everything**

(4; 3 - 4 in the half-term). (ID). May not be repeated for credit.

**ENVIRON 240 / PHIL 240. Environmental Ethics: Philosophical Underpinnings**

(3; 2 in the half-term). (HU). May not be repeated for credit.

**ENVIRON 242. Topics in Environmental Social Science**

(1 - 4). (SS). May be repeated for a maximum of 12 credits. May be elected more than once in the same term.

**ENVIRON 243. Topics in Environmental Natural Science**

(1 - 4). (NS). (BS). May be repeated for a maximum of 12 credits. May be elected more than once in the same term.

**ENVIRON 244. Topics in Culture and Environment**

(1 - 4). (HU). May be repeated for a maximum of 12 credits. May be elected more than once in the same term.

**ENVIRON 245. Interdisciplinary Environmental Topics**

(1 - 4). (ID). May be repeated for a maximum of 12 credits. May be elected more than once in the same term.

**ENVIRON 250 / CMLXSYS 250 / PUBPOL 250. Social Systems, Energy, and Public Policy**

(3). (QR/1). May not be repeated for credit.

**ENVIRON 255 / BIOLOGY 255. Plant Diversity**

(4). (NS). (BS). May not be repeated for credit.

**ENVIRON 256 / ANTHRCUL 256. Culture, Adaptation, and Environment**

(3). (SS). May not be repeated for credit.

**ENVIRON 259 / EARTH 259. Earth's Future and a Resilient Human Society**

(4). (NS). (BS). May not be repeated for credit. No credit granted to those who have completed or are enrolled in EARTH 111 or 159.

**ENVIRON 270. Our Common Future: Ecology, Economics and Ethics of Sustainable Development**

(4). (ID). May not be repeated for credit.

**ENVIRON 277 / CLCIV 277 / HISTORY 277. Environmental History of the Ancient Mediterranean**

(3). (HU). May not be repeated for credit.

**ENVIRON 281 / BIOLOGY 281. General Ecology**

BIOLOGY 171, (172 or 174) & 173; or BIOLOGY 195 & 173; AND a laboratory course in CHEM (BIOLOGY 172 and 173 are strongly recommended). (3). (NS). (BS). May not be repeated for credit. No credit granted to those who have completed or are enrolled in EEB 381 or ENVIRON 381.

**ENVIRON 284 / EARTH 284. Environmental Geology**

(4). (NS). (BS). May not be repeated for credit. No credit granted to those who have completed GEOSCI 148, and no credit granted to those who have completed or are enrolled in EARTH 148. Those with credit for GEOSCI 147 or EARTH 147 may elect EARTH 284 or ENVIRON 284 for only 3 credits.

**ENVIRON 290. Food: The Ecology, Economics, and Ethics of Growing and Eating**

(3). (ID). May not be repeated for credit.

**ENVIRON 300. Special Problems and Research**

Consent of instructor required. (1 - 4). (INDEPENDENT). May be repeated for a maximum of 8 credits.

**ENVIRON 301 / HISTART 301. Nature, Culture and Landscape**

Junior/Senior/permission of instructor. (3). (HU). May not be repeated for credit.

**ENVIRON 302. Topics in Environmental Social Science**

(1 - 4). (SS). May be repeated for a maximum of 12 credits. May be elected more than once in the same term.

**ENVIRON 303. Topics in Environmental Natural Science**

(1 - 4). (NS). (BS). May be repeated for a maximum of 12 credits. May be elected more than once in the same term.

**ENVIRON 304. Topics in Culture and Environment**

(1 - 4). (HU). May be repeated for a maximum of 12 credits. May be elected more than once in the same term.

**ENVIRON 305. Interdisciplinary Environmental Topics**

(1 - 4). (ID). May be repeated for a maximum of 12 credits. May be elected more than once in the same term.

**ENVIRON 306. Global Water**

(3). (SS). May not be repeated for credit.

**ENVIRON 307 / POLSCI 309. Theoretical Perspectives on Environmental Change**

POLSCI 101. (3 - 4). (SS). May be elected twice for credit.

**ENVIRON 308. Sustainability and Health**

(3). (SS). May not be repeated for credit.

**ENVIRON 309 / EARTH 309. GIS Explorations of the Past, Present, and Future**

General computer experience is required, including word processing, spreadsheets, and presentations. (3). (ID). (BS). May not be repeated for credit.

**ENVIRON 310. Toxicology: The Study of Environmental Chemicals and Disease**

BIOLOGY 162 or 172. (3). (NS). (BS). May not be repeated for credit.

**ENVIRON 311 / EEB 320. Rivers, Lakes, and Wetlands: Introduction to Aquatic Ecosystems**

One course in BIOLOGY or permission of instructor. (4). (NS). (BS). May not be repeated for credit. No credit granted to those who have completed or are enrolled in ENVIRON 331/EEB 321 (Rivers, Lakes and Wetlands).

**ENVIRON 312 / POLSCI 380 / PUBPOL 312. Environmental Politics and Policy**

(3). May not be repeated for credit.

**ENVIRON 315 / EEB 315. The Ecology and Evolution of Infectious Diseases**

BIOLOGY 100; or BIOLOGY 171, (172 or 174) & 173; or BIOLOGY 195 & 173. (3). (NS). (BS). May not be repeated for credit.



**ENVIRON 317. Conservation of Biological Diversity**

(3). (NS). (BS). May not be repeated for credit.

**ENVIRON 320. Environmental Journalism: Reporting About Science, Policy, and Public Health**

Completion of First-Year Writing Requirement. (3). (ID). May not be repeated for credit.

**ENVIRON 321. Climate Change and Adaptation**

(3). (SS). May not be repeated for credit.

**ENVIRON 324. Introduction to Water Law and Policy**

Previous course in Environmental or Public Policy. (3). (SS). May not be repeated for credit.

**ENVIRON 325 / EARTH 325. Environmental Geochemistry**

Introductory chemistry. (4). (NS). (BS). May not be repeated for credit.

**ENVIRON 329 / ENGLISH 329. Environmental Writing and Great Lakes Literature**

Consent of department required. (5 in the half-term). (HU). May not be repeated for credit.

**ENVIRON 331 / EEB 321. Rivers, Lakes, and Wetlands: Introduction to Aquatic Ecosystems (UMBS)**

Consent of department required. One course in BIOLOGY. (5 in the half-term). (NS). (BS). May not be repeated for credit. No credit granted to those who have completed or are enrolled in ENVIRON 311/EEB 320 (Rivers, Lakes and Wetlands).

**ENVIRON 333 / EARTH 333. The Inexhaustible Seas? Marine Resources and Environmental Issues**

EARTH (GEOSCI) 116, 119, 125, 120, 222, or 284. (4). (NS). (BS). May not be repeated for credit. No credit granted to those who have completed GEOSCI 154, and no credit granted to those who have completed or are enrolled in EARTH 154.

**ENVIRON 335 / AAS 322. Introduction to Environment Politics: Race, Class, and Gender**

(4; 3 in the half-term). (SS). (R&E). May not be repeated for credit.

**ENVIRON 337 / RCHUMS 337. Children Under Fire: Narratives of Sustainability**

(3). (HU). May not be repeated for credit.

**ENVIRON 344 / EARTH 344. Sustainable and Fossil Energy: Options and Consequences**

Consent of department required. At least one previous course in physical sciences or engineering. (3 in the half-term). (NS). (BS). May not be repeated for credit.

**ENVIRON 345 / POLSCI 331 / SOC 380. Environmental Public Opinion Analysis**

(3). (SS). May not be repeated for credit.

**ENVIRON 348 / EEB 348. Forest Ecosystems**

Consent of department required. BIOLOGY 171, (172 or 174) & 173; or BIOLOGY 195 & 173. (5 in the half-term). (NS). (BS). May not be repeated for credit. Su at Biological Station.

**ENVIRON 350. The Built Environment: Introduction to Landscape Change**

(3). May not be repeated for credit.

**ENVIRON 354 / AMCULT 354 / ENGLISH 312. Camp Davis: History and Literature of the Rockies**

Consent of department required. (3 in the half-term). (HU). May not be repeated for credit. Su at Camp Davis, Wyoming. May not be taken pass/fail.

**ENVIRON 360 / PSYCH 360. Behavior and Environment**

(3). (SS). May not be repeated for credit.

**ENVIRON 361 / PSYCH 362. The Psychology of Environmental Stewardship**

(3). (SS). May not be repeated for credit.

**ENVIRON 362 / ANTHRBIO 362 / EEB 362. Primate Evolutionary Ecology**

An introductory course on primates, ecology, or conservation biology is advised. No quantitative or statistical training is required. (4). (NS). (BS). May not be repeated for credit.

**ENVIRON 365. International Environmental Policy**

(3). May not be repeated for credit.

**ENVIRON 367. Global Enterprise and Sustainable Development**

Senior Standing. (3). May not be repeated for credit.

**ENVIRON 370 / ARCH 423 / URP 423. Introduction to Urban and Environmental Planning**

(3 - 5). May not be repeated for credit.

**ENVIRON 372 / EEB 372. General Ecology Laboratory**

BIOLOGY 171, (172 or 174) & 173; or BIOLOGY 195 & 173; AND concurrent or prior enrollment in BIOLOGY 281/ENVIRON 281. (3). (BS). May not be repeated for credit.

**ENVIRON 375 / ECON 370. Environmental and Resource Economics**

ECON 101. (Prerequisites enforced at registration.) (3). (SS). May not be repeated for credit. No credit granted to those who have completed or are enrolled in ECON 471 or 472, or NRE 571 or 583.

**ENVIRON 376 / PHIL 376. Environmental Ethics-Living Well with Nature**

(3). (HU). May not be repeated for credit.

**ENVIRON 377. Literature and the Environment**

(3). (HU). May not be repeated for credit.

**ENVIRON 380 / EARTH 380. Mineral Resources, Economics, and the Environment**

No previous courses in Geology or other sciences are required. (4; 3 - 4 in the half-term). (NS). (BS). (QR/2). May not be repeated for credit.

**ENVIRON 381 / EEB 381. General Ecology**

BIOLOGY 171, (172 or 174) & 173; or BIOLOGY 195 & 173; AND a laboratory course in CHEM. (5 in the half-term). (BS). May not be repeated for credit.

**ENVIRON 382 / EDCURINS 382. Introduction to Environmental Education for Sustainable Development**

(4). May not be repeated for credit.

**ENVIRON 385 / HISTORY 385. The Environmental History of China**

(4; 3 in the half-term). (SS). May not be repeated for credit.

**ENVIRON 390 / RCIDIV 390. Environmental Activism: Citizenship in a Republic**

It is best to have at least one environmental course prior to this class. (3). (ID). May not be repeated for credit.

**ENVIRON 391. Sustainability and the Campus**

An introductory course in Environmental, Global Change, or related field (e.g., ENVIRON 110, 201, 270). (4). (ID). May not be repeated for credit.

**ENVIRON 395. Public Lands & Natural Resource Law and Policy**

Completed one introductory environment course (such as ENVIRON 101, 110, 111, or 201). (3). (SS). May not be repeated for credit.

**ENVIRON 398. Environment Internship Program**

Consent of instructor required. (1 - 4). (EXPERIENTIAL). May be repeated for a maximum of 9 credits. May be elected more than once in the same term. Offered mandatory credit/no credit.

**ENVIRON 399. Junior Honors Seminar**

Consent of instructor required. (3). May not be repeated for credit.

**ENVIRON 400. Special Problems and Research**

Consent of department required. (1 - 4). (INDEPENDENT). May be repeated for a maximum of 8 credits.

**ENVIRON 402. Nature and History in the Huron River Watershed**

(3). May not be repeated for credit. Rackham credit requires additional work.

**ENVIRON 403 / EARTH 408. Introduction to GIS in the Earth Sciences**

An introductory geology or environmental sciences course (EARTH 116, 119, 120, 201, or 284) and one math course or a statistics course (MATH 115, 116, 120, 121, 156, 175, 176, 185, 186, 295, 296, STATS 150, 180, 250, 280). (Prerequisites enforced at registration.) Although previous GIS experience is not required, students are expected to be familiar with desktop and mobile computing, and to be comfortable with at least one quantitative software program (Matlab, Excel,

Mathematica, or R, as examples). (3). (BS). May not be repeated for credit.

**ENVIRON 405. Urban Sprawl: Policy and Politics**

ENVIRON 350 or 370. (3). May not be repeated for credit.

**ENVIRON 407 / CEE 307. Sustainable Cities**

Junior or Senior standing and two environmental science classes. (3). (BS). May not be repeated for credit.

**ENVIRON 408. Land Use Policy, Law, and the Environment**

Junior or senior status. (3). May not be repeated for credit.

**ENVIRON 409 / EEB 487 / NRE 409. Ecology of Fishes**

BIOLOGY 162 or 171, 172 and 173. (3 - 4). (BS). May not be repeated for credit. W. (Lectures: 3 credits; lectures and lab: 4 credits).

**ENVIRON 410. American Environmentalism and the Frontier West**

Consent of instructor required. One ENVIRON course. (3). May not be repeated for credit.

**ENVIRON 412 / PUBPOL 412. Environmental Values in Public Policy**

(3). May not be repeated for credit.

**ENVIRON 413 / COMM 413. Environmental Communication**

(3). May not be repeated for credit.

**ENVIRON 415 / EEB 424 / NRE 415. Behavioral Ecology and Conservation Biology**

BIOLOGY 162 or 171 and completion or concurrent enrollment in either ENVIRON 415 or EEB 424 or NRE 415. (4). (BS). May not be repeated for credit. No credit granted to those who have completed or are enrolled in EEB 492.

**ENVIRON 418 / ORGSTUDY 418. Leadership and Environmental Stewardship in Organizations**

(3). May not be repeated for credit.

**ENVIRON 421. Restoration Ecology**

BIOLOGY/ENVIRON 281 and EEB/ENVIRON 372 OR EEB/ENVIRON 381. (4). (BS). May not be repeated for credit. Rackham credit requires additional work.

**ENVIRON 426 / CLIMATE 421 / EARTH 421. Introduction of Physical Oceanography**

MATH 115 and 116, and an introductory science course. (3). (BS). May not be repeated for credit. Rackham credit requires additional work.

**ENVIRON 430 / EEB 489 / NRE 430. Soil Ecology**

BIOLOGY 162 or 171 and 172 and 173, and General Chemistry. Concurrent enrollment in ENVIRON 436/EEB 436 and ENVIRON 435/NRE 435 highly recommended. (3). (BS). May not be repeated for credit. F.

**ENVIRON 431 / EARTH 431. Terrestrial Biomes Past, Present and Future**

*BIOLOGY 171, or one of EARTH (GEOSCI) 116, 119, 120, or 205/206; or Graduate standing. (Prerequisites enforced at registration.) (3). (BS). May not be repeated for credit. Rackham credit requires additional work.*

**ENVIRON 433 / EEB 433 / NRE 433. Ornithology**

*BIOLOGY 171 and (172 or 174) and 173, or BIOLOGY 195 and 173. (4). (BS). May not be repeated for credit.*

**ENVIRON 436 / EEB 436 / NRE 436. Woody Plants: Biology and Identification**

*BIOLOGY 162 or 171. (4). (BS). May not be repeated for credit. Rackham credit requires additional work.*

**ENVIRON 442 / EARTH 442. Earth Surface Processes and Soils**

*MATH 115 and CHEM 130. (4). (BS). May not be repeated for credit.*

**ENVIRON 446 / EARTH 446. Paleoclimatology**

*MATH 115 and 116 and EARTH 305, or permission of instructor. (4). (BS). May not be repeated for credit. Rackham credit requires additional work.*

**ENVIRON 448. Sustainability in Practice: Organizations and the Environment**

*Introductory Environ Social Science course 200 level or above and STATS 250. (4). May not be repeated for credit.*

**ENVIRON 450 / EARTH 450. Ecosystem Science in the Rockies**

*Introductory Geology [EARTH 119&118 or 116 or 120, or ENVIRON 119&118 or 116], AND (either General Ecology [ENVIRON 281 or BIOLOGY 281] or Introductory Environmental Science [EARTH 201 or 202 or 284, or ENVIRON 209 or 202 or 284]). (Prerequisites enforced at registration.) At least two courses from the following list: Environmental Geochemistry EARTH 325), Geobiology (EARTH 313), Earth Materials (EARTH 315), Earth's Surface and Sediments (EARTH 305). (5 in the half-term). (NS). (BS). May not be repeated for credit.*

**ENVIRON 451 / EEB 451 / NRE 451. Biology of Mammals**

*BIOLOGY 171, (172 or 174) & 173; or BIOLOGY 195 & 173. (4). (BS). May not be repeated for credit.*

**ENVIRON 460 / EARTH 460. Paleobiology and Paleoenvironments**

*At least two courses from following list: EARTH 305, EARTH 313, EARTH 418. (5). (BS). May not be repeated for credit. Rackham credit requires additional work.*

**ENVIRON 461 / ANTHRBIO 461. Primate Conservation Biology**

*An introductory course on primates, ecology, or conservation biology is advised. No quantitative or statistical training is required. (3). (BS). May not be repeated for credit.*

**ENVIRON 462. Topics in Environmental Social Science**

*At least one environmentally related course prior to this class. (1 - 4). May be repeated for a maximum of 12 credits. May be elected more*

*than once in the same term. Rackham credit requires additional work.*

**ENVIRON 463. Topics in Environmental Natural Science**

*At least one environmentally related natural science course prior to this class. (1 - 4). (BS). May be repeated for a maximum of 12 credits. May be elected more than once in the same term. Rackham credit requires additional work.*

**ENVIRON 464. Topics in Culture and Environment**

*At least one environmentally related course prior to this class. (1 - 4). May be repeated for a maximum of 12 credits. May be elected more than once in the same term. Rackham credit requires additional work.*

**ENVIRON 465. Interdisciplinary Environmental Topics**

*At least one environmentally related course prior to this class. (1 - 4). May be repeated for a maximum of 12 credits. May be elected more than once in the same term. Rackham credit requires additional work.*

**ENVIRON 467 / CHEM 467 / CLIMATE 467 / EARTH 465 / ENSCEN 467. Biogeochemical Cycles**

*MATH 116, CHEM 210, and PHYSICS 240 (or 260). (3). (BS). May not be repeated for credit. F, W.*

**ENVIRON 468 / PUBPOL 468. Oil and Gas Policy in the US**

*May not be repeated for credit.*

**ENVIRON 473 / ANTHRBIO 463. Statistical Modeling and Data Visualization in R**

*Basic knowledge of statistics (e.g., linear regression). Some prior experience with R is advisable, but not required. (4). (BS). (QR/1). May not be repeated for credit. Rackham credit requires additional work.*

**ENVIRON 475 / EHS 588 / NRE 475. Environmental Law**

*(3). May not be repeated for credit.*

**ENVIRON 476 / EEB 476 / NRE 476. Ecosystem Ecology**

*General Ecology and a 400-level course in Aquatic or Terrestrial Ecology. (3). (BS). May not be repeated for credit. W.*

**ENVIRON 479 / EARTH 477. Hydrogeology**

*MATH 116; and High school knowledge of PHYSICS, CHEMISTRY, and EARTH (GEOSCI) or equivalent. (4). (BS). May not be repeated for credit.*

**ENVIRON 490. War and the Environment: A Lethal Reciprocity**

*Coursework in environment or political science. (3). May not be repeated for credit.*

**ENVIRON 499 / NRE 499. Senior Honors Thesis**

*Consent of instructor required. ENVIRON 399 and permission of instructor. (1 - 6). (INDEPENDENT). May be repeated for a maximum of 6 credits. Continuing Course. Y grade can be reported at end of the first-term to indicate work in progress. At the end of the second term, the final grade is posted for both term's elections.*

## Courses in LSA Exhibit Museum

### Museum Methods (MUSMETH)

#### MUSMETH 405. Special Problems in Museum Methods

Permission of instructor; MUSMETH 406 is desired. (2 - 4). May be elected twice for credit. F.

#### MUSMETH 499. Independent Research

Permission of instructor. (1 - 4). (INDEPENDENT). May be elected three times for credit.

## Courses in LSA Germanic Languages & Literatures

### Dutch and Flemish Studies (DUTCH)

#### DUTCH 111. First Special Speaking and Reading Course

(4). May not be repeated for credit. Graduate students should elect DUTCH 511. No credit granted to those who have completed or are enrolled in DUTCH 100. F.

#### DUTCH 112. Second Special Speaking and Reading Course

DUTCH 111. (4). May not be repeated for credit. Graduate students should elect DUTCH 512. No credit granted to those who have completed or are enrolled in DUTCH 100. W.

#### DUTCH 160. First Year Seminar

Enrollment restricted to first-year students, including those with sophomore standing. (3). (HU). (R&E). May not be repeated for credit. Taught in English. F.

#### DUTCH 231. Second-Year Dutch

DUTCH 112 or 100. (4). May not be repeated for credit. Graduate students should elect DUTCH 531. F.

#### DUTCH 232. Second-Year Dutch

DUTCH 231. (4). (Lang Req). May not be repeated for credit. Graduate students should elect DUTCH 532. W.

#### DUTCH 339. Independent Study

Consent of instructor required. (2 - 4). (INDEPENDENT). May be repeated for credit. F, W, Sp.

#### DUTCH 351 / JUDAIC 351. Anne Frank in Context

(3). (HU). (R&E). May not be repeated for credit.

### German (GERMAN)

#### GERMAN 100. Intensive Elementary Course

(8). May not be repeated for credit. No credit granted to those who have completed or are enrolled in GERMAN 101, 102 103 or RCLANG 191.

#### GERMAN 101. Elementary Course

All students with prior coursework in German must take the placement test. (4). May not be repeated for credit. No credit granted to those who have completed or are enrolled in GERMAN 100, 103, or RCLANG 191. F, W, Su.

#### GERMAN 102. Elementary Course

GERMAN 101. (4). May not be repeated for credit. No credit granted to those who have completed or are enrolled in GERMAN 100, 103, or RCLANG 191. F, W, Sp.

#### GERMAN 103. Review of Elementary German

Assignment by placement test or permission of department. (5). May not be repeated for credit. No credit granted to those who have completed or are enrolled in GERMAN 100, 101, 102, or RCLANG 191.

#### GERMAN 111. First Special Reading Course

Permission of the department. (4). May not be repeated for credit. The course does not satisfy the LSA foreign language requirement. Taught in English.

#### GERMAN 112. Second Special Reading Course

GERMAN 111 or placement test. (4). May not be repeated for credit. This course does not satisfy the LSA foreign language requirement. W, Su.

#### GERMAN 127 / JUDAIC 101 / YIDDISH 101. Elementary Yiddish I

(4). May not be repeated for credit. No credit granted to those who have completed or are enrolled in JUDAIC 431 or YIDDISH 431.

#### GERMAN 128 / JUDAIC 102 / YIDDISH 102. Elementary Yiddish II

JUDAIC/YIDDISH 101. (4). May not be repeated for credit. No credit granted to those who have completed or are enrolled in JUDAIC 432 or YIDDISH 432.

#### GERMAN 180. First Year Seminar

No knowledge of German is required. Enrollment restricted to first-year students, including those with sophomore standing. (3). (HU). May not be repeated for credit. Taught in English.

#### GERMAN 210. German Pronunciation

Concurrent enrollment in GERMAN 221, 230, 231, 232, or RCLANG 291. (1). May be repeated for a maximum of 2 credits.

#### GERMAN 221. Accelerated Third Semester German

GERMAN 102 and assignment by placement test. (5). May not be repeated for credit. No credit granted to those who have completed GERMAN 230 or 231. Four credits granted to those who have completed GERMAN 102 or 103.

#### GERMAN 227 / JUDAIC 201 / YIDDISH 201. Intermediate Yiddish I

JUDAIC/YIDDISH 102. (4). May not be repeated for credit. No credit granted to those who have completed or are enrolled in JUDAIC 531 or YIDDISH 531.

**GERMAN 228 / JUDAIC 202 / YIDDISH 202. Intermediate Yiddish II**  
 JUDAIC/YIDDISH 201. (4). (Lang Req). May not be repeated for credit.  
 No credit granted to those who have completed or are enrolled in  
 JUDAIC 532 or YIDDISH 532.

**GERMAN 230. Intensive Second-Year Course**

GERMAN 102 or 103 or equivalent and assignment by placement test,  
 or permission of instructor. (8). (Lang Req). May not be repeated for  
 credit. No credit granted to those who have completed or are enrolled  
 in GERMAN 221, 231, 232, or RCLANG 291.

**GERMAN 231. Second-Year Course**

GERMAN 102 or 103 and assignment by placement test. (4). May not  
 be repeated for credit. No credit granted to those who have completed  
 or are enrolled in GERMAN 230, 221, or RCLANG 291.

**GERMAN 232. Second-Year Course**

GERMAN 221 or 231; or assignment by placement test. (4). (Lang Req).  
 May not be repeated for credit. No credit granted to those who have  
 completed or are enrolled in GERMAN 230 or RCLANG 291. All sections  
 of GERMAN 232 address special topics, e.g., music, philosophy,  
 science, current political issues, etc. F, W, Sp, Su.

**GERMAN 243 / HONORS 254. Faust**

(3; 2 in the half-term). (HU). May not be repeated for credit. Taught in  
 English.

**GERMAN 300. German Grammar and Composition**

GERMAN 230 or 232 or RCLANG 291 or the equivalent as per  
 placement test results. (4). May not be repeated for credit. Taught in  
 German.

**GERMAN 302. Topics in German Politics and Society**

(3 - 4). (SS). May be elected three times for credit. Taught in English.

**GERMAN 303. Topics in German Culture and the Arts**

(3 - 4). (HU). May be elected three times for credit. Taught in English.

**GERMAN 304. Studies in German Culture**

(1 in the half-term). (HU). May be elected three times for credit. May  
 be elected more than once in the same term. Taught in English.

**GERMAN 305. Studies in German Society and Politics**

(1 in the half-term). (SS). May be elected three times for credit. Taught  
 in English.

**GERMAN 306. Conversation Practice**

GERMAN 230, 231, or 232; concurrent enrollment in a 300-level course  
 is encouraged but not necessary. (1). May be elected three times for  
 credit. This course does not satisfy the language requirement.

**GERMAN 309 / HONORS 309 / JAZZ 309 / RCHUMS 307. Imagination**

(3). (HU). May not be repeated for credit. Taught in English.

**GERMAN 310. Studies in German Culture**

Residence in Max Kade German House; others by permission of  
 instructor. (1). May be repeated for a maximum of 4 credits.

**GERMAN 312. Cityscapes**

Consent of department required. Max Kade Resident or GERMAN  
 221/231 or 310. (1). May be elected four times for credit.

**GERMAN 315. Introduction to German Literature**

GERMAN 230 or 232 or RCLANG 291 or the equivalent as per  
 placement test results. (3). (HU). May not be repeated for credit.

**GERMAN 322 / HISTORY 322. The Origins of Nazism**

(4). (HU). (R&E). May not be repeated for credit. Taught in English.

**GERMAN 325. Intermediate German**

GERMAN 230 or 232 or RCLANG 291 or the equivalent as per  
 placement test results. (3). May be elected twice for credit. May be  
 elected more than once in the same term. Taught in German.

**GERMAN 326. Intermediate German**

GERMAN 230 or 232 or RCLANG 291 or the equivalent as per  
 placement test results. (3). May be elected twice for credit. May be  
 elected more than once in the same term. Taught in German.

**GERMAN 327 / JUDAIC 301 / YIDDISH 301. Advanced Yiddish I**

JUDAIC 102 or YIDDISH 202. (3). May not be repeated for credit. No  
 credit granted to those who have completed or are enrolled in JUDAIC  
 631 or YIDDISH 631.

**GERMAN 328 / JUDAIC 302 / YIDDISH 302. Advanced Yiddish II**

JUDAIC/YIDDISH 301. (3). May not be repeated for credit. No credit  
 granted to those who have completed or are enrolled in JUDAIC 632 or  
 YIDDISH 632.

**GERMAN 329. Independent Study**

Consent of instructor required. (1 - 4; 1 - 2 in the half-term).  
 (INDEPENDENT). May be repeated for a maximum of 8 credits. F, W,  
 Sp, Su.

**GERMAN 332. Kino: German Film**

GERMAN 230 or 232 or RCLANG 291 or the equivalent as per  
 placement test results. (3). (HU). May not be repeated for credit.  
 Taught in German.

**GERMAN 333 / SAC 333. Fascist Cinemas**

SAC 236. (3). (HU). (R&E). May not be repeated for credit. Taught in  
 English.

**GERMAN 336. German in Song**

GERMAN 230 or 232 or RCLANG 291 or the equivalent as per  
 placement test results. (3). (CE). May not be repeated for credit.  
 Taught in German.

**GERMAN 346 / AMCULT 346 / SAC 346. Media Matter: From Print to  
 Screen Culture**

(3). (HU). May not be repeated for credit. Taught in English.

**GERMAN 350. Business German**

GERMAN 230 or 232 or RCLANG 291 or the equivalent as per placement test results. (3). May not be repeated for credit. Taught in German.

**GERMAN 351. Practice in Business German**

Internship in a German-speaking country. (3). (EXPERIENTIAL). May not be repeated for credit.

**GERMAN 357. Tutoring High-School and K-8 German**

Sophomore standing and above. Completion of one graded German course beyond GERMAN 300. (Prerequisites enforced at registration.) (3). (EXPERIENTIAL). May not be repeated for credit.

**GERMAN 358. German Teaching Assistance for Children at the Deutsche Schule Ann Arbor (DSAA)**

Sophomore standing or beyond. Completion of two of the following courses: GERMAN 300, 325, 326, 332, 336, 350, 351, 357, 380, 385, 425, 426, 430, 431, 454, 457, 464, or 499. (1). (EXPERIENTIAL). May not be repeated for credit.

**GERMAN 375 / MEMS 375 / SCAND 375. Celtic and Nordic Mythology**

(3). (HU). May not be repeated for credit. Taught in English.

**GERMAN 379 / POLSCI 386 / SOC 379. Sports, Politics, and Society**

One introductory course in sociology or political science. (3). (SS). May not be repeated for credit. No credit for those who have completed SOC 212/GERMAN 212. Taught in English.

**GERMAN 386. Fairy Tales**

(3). (HU). May not be repeated for credit.

**GERMAN 388. Topics in German Literature**

GERMAN 300, 315, 325, 326, 332, or 336. (3). (HU). May be elected three times for credit. May be elected more than once in the same term.

**GERMAN 391 / HISTORY 386 / JUDAIC 386. The Holocaust**

(4). (SS). (R&E). May not be repeated for credit. Taught in English.

**GERMAN 396 / AAS 395 / HISTORY 396. Germany and the Black Diaspora**

(3). (HU). (R&E). May not be repeated for credit. Taught in English.

**GERMAN 398. German Studies Topics in English Translation**

(3 - 4; 3 in the half-term). May be elected twice for credit. May be elected more than once in the same term. Taught in English.

**GERMAN 401 / HISTORY 416. Nineteenth-Century German and European Intellectual History**

(3). May not be repeated for credit. Taught in English.

**GERMAN 402 / HISTORY 417. Twentieth-Century German and European Thought**

(3). May not be repeated for credit. Taught in English.

**GERMAN 416. Seminar in German Studies**

One year beyond GERMAN 232. Students may not take the same topic twice. (3; 2 in the half-term). May be repeated for a maximum of 12 credits. May be elected more than once in the same term.

**GERMAN 425. Advanced German**

GERMAN 325, 326 or permission of instructor. (3). May not be repeated for credit. Taught in German. GERMAN 426 may be taken independently of GERMAN 425. Rackham credit requires additional work.

**GERMAN 426. Advanced German**

GERMAN 325, 326 or permission of instructor. (3; 2 in the half-term). May not be repeated for credit. W. Taught in German. Rackham credit requires additional work.

**GERMAN 430 / BA 499. Doing Business in German**

One 300-level course taught in German or permission of instructor. (3). May not be repeated for credit. W. Taught in German.

**GERMAN 431. Business German: Management and Marketing**

GERMAN 350 or 430. (3). May not be repeated for credit. Taught in German.

**GERMAN 449. Special Topics in English Translation**

(3 - 4; 3 in the half-term). May be elected three times for credit. May be elected more than once in the same term. Taught in English. Rackham credit requires additional work.

**GERMAN 457. Twentieth Century German Fiction**

One year beyond GERMAN 232. (3; 2 in the half-term). May be elected twice for credit. Taught in German. Rackham credit requires additional work.

**GERMAN 464. Postwar German Ethnicities in Literature and Culture**

One year beyond GERMAN 232. (3). (R&E). May not be repeated for credit. Taught in German.

**GERMAN 470. Workshop in Translation**

Two courses taught in German beyond GERMAN 232. (3). May not be repeated for credit.

**GERMAN 472. Un/Translatability in Theory and Practice**

Two courses taught in German beyond GERMAN 232. (3). May not be repeated for credit.

**GERMAN 491. German Honors Proseminar**

Senior Honors standing. (3; 2 in the half-term). May not be repeated for credit. Continuing Course. Y grade can be reported at end of the first-term to indicate work in progress. At the end of the second term of GERMAN 492, the final grade is posted for both term's elections. F.

**GERMAN 492. German Honors Proseminar**

Senior Honors standing. (3; 2 in the half-term). May not be repeated for credit. W.

**GERMAN 517 / ANTHRCUL 519 / LING 517. Principles and Methods of Historical Linguistics**

Graduate standing, or permission of instructor. (3; 2 in the half-term). May not be repeated for credit.

**GERMAN 531 / EDCURINS 431. Teaching Methods**

Senior standing; and candidate for a teaching certificate. (3). May not be repeated for credit. F.

**GERMAN 540. Introduction to German Studies**

Permission of instructor. (3). May not be repeated for credit.

**Scandinavian Studies (SCAND)****SCAND 103. Elementary Swedish**

(4). May not be repeated for credit.

**SCAND 104. Elementary Swedish**

SCAND 103. (4). May not be repeated for credit. Students needing SCAND 103 or the equivalent for entry into SCAND 104 can meet this prerequisite by passing an examination by the instructor.

**SCAND 233. Second-Year Swedish**

SCAND 104 or 100. (4). May not be repeated for credit.

**SCAND 234. Second-Year Swedish**

SCAND 233. (4). (Lang Req). May not be repeated for credit. Students needing SCAND 233 or the equivalent for entry into SCAND 234 can meet this prerequisite by passing an examination given by the instructor.

**SCAND 325. Third Year Swedish**

SCAND 234. (Prerequisites enforced at registration.) (4). May be elected twice for credit.

**SCAND 331. Introduction to Scandinavian Civilization**

(3). (HU). May not be repeated for credit. Taught in English.

**SCAND 349. Independent Study**

Consent of instructor required. (1 - 4). (INDEPENDENT). May be repeated for a maximum of 8 credits. F, W, Sp.

**SCAND 351. Practice in Business Swedish**

SCAND 234, plus internship in a Scandinavian country. (3). (EXPERIENTIAL). May not be repeated for credit.

**SCAND 375 / GERMAN 375 / MEMS 375. Celtic and Nordic Mythology**

(3). (HU). May not be repeated for credit. Taught in English. F.

**SCAND 442. The Icelandic Saga (in English Translation)**

Upperclass standing or permission of instructor. (3). May not be repeated for credit. Taught in English.

## Courses in LSA Global and Intercultural Study

**Study Abroad (STDABRD)****STDABRD 230. CGIS: Intermediate French Languages Studies in Grenoble, France**

Minimum 4 semesters college-level French or equivalent. (1 - 10 in the half-term). May be repeated for a maximum of 60 credits. May be elected more than once in the same term. (Grenoble, France). Su. Multiple Grading Patterns.

**STDABRD 235. CGIS: Advanced Language and Culture in Granada, Spain**

Minimum five semesters collegelevel Spanish by program startd date fulfilled by any of the following or an equivalent: SPANISH 277 RCLANG 324. (1 - 15). May be repeated for a maximum of 60 credits. May be elected more than once in the same term. Multiple Grading Patterns.

**STDABRD 237. CGIS: Sports and Society in Barcelona, Spain**

(1 - 10 in the half-term). May be repeated for a maximum of 60 credits. May be elected more than once in the same term. Multiple Grading Patterns.

**STDABRD 238. CGIS: Arts in Barcelona, Spain**

(1 - 10 in the half-term). May be repeated for a maximum of 60 credits. May be elected more than once in the same term. Multiple Grading Patterns.

**STDABRD 240. CGIS: Language and Culture in Salamanca, Spain**

Minimum four semesters college-level Spanish, as fulfilled by any of the following or the equivalent: SPANISH 230, SPANISH 232, RCLANG 294, or RCLANG 314. (1 - 10 in the half-term). May be repeated for a maximum of 60 credits. May be elected more than once in the same term. (Salamanca, Spain) Su. Multiple Grading Patterns.

**STDABRD 242. CGIS: STEM Summer Research Program in Granada, Spain**

(1 - 15). May be repeated for a maximum of 60 credits. May be elected more than once in the same term. Multiple Grading Patterns.

**STDABRD 243. CGIS: Sport Psychology in Seville, Spain**

(1 - 10 in the half-term). May be repeated for a maximum of 60 credits. May be elected more than once in the same term. Multiple Grading Patterns.

**STDABRD 245. CGIS: Intensive Language and Culture in Santiago de Compostela, Spain**

(1 - 10 in the half-term). May be repeated for a maximum of 60 credits. May be elected more than once in the same term. Multiple

*Grading Patterns.***STDABRD 250. CGIS: Intensive Chinese Language in Beijing, China**

*At least two semesters college-level Chinese language study with 3.0 GPA. (1 - 10 in the half-term). May be repeated for a maximum of 60 credits. May be elected more than once in the same term. (Beijing, China). Su. Multiple Grading Patterns.*

**STDABRD 255. CGIS: Contemporary China and Intensive Chinese Language in Beijing, China**

*Two semesters of college-level Chinese or equivalent. (1 - 15; 1 - 10 in the half-term). May be repeated for a maximum of 60 credits. May be elected more than once in the same term. Multiple Grading Patterns.*

**STDABRD 256. CGIS: Michigan Associates Summer in Shanghai, China**

*(1 - 10 in the half-term). May be repeated for a maximum of 60 credits. May be elected more than once in the same term. Multiple Grading Patterns.*

**STDABRD 257. CGIS: University Study in China - Fudan University (Shanghai)**

*(1 - 15; 1 - 10 in the half-term). May be repeated for a maximum of 60 credits. May be elected more than once in the same term. Multiple Grading Patterns.*

**STDABRD 258. CGIS: University Study in China - University of Macau**

*(1 - 15; 1 - 10 in the half-term). May be repeated for a maximum of 60 credits. May be elected more than once in the same term. Multiple Grading Patterns.*

**STDABRD 260. CGIS: Italian Studies in Rome, Italy**

*(1 - 10 in the half-term). May be repeated for a maximum of 60 credits. May be elected more than once in the same term. Multiple Grading Patterns.*

**STDABRD 265. CGIS: Intermediate Italian Language Studies in Ferrara, Italy**

*4 semesters of college level Italian or equivalent. (1 - 10 in the half-term). May be repeated for a maximum of 60 credits. May be elected more than once in the same term. Multiple Grading Patterns.*

**STDABRD 285. CGIS: Arts in Paris, France**

*(1 - 10 in the half-term). May be repeated for a maximum of 60 credits. May be elected more than once in the same term. Multiple Grading Patterns.*

**STDABRD 301. CGIS: University Study in Canada - Memorial University of Newfoundland**

*(1 - 15). May be repeated for a maximum of 60 credits. May be elected more than once in the same term. Multiple Grading Patterns.*

**STDABRD 302. CGIS: Food, Energy, and Water Systems in Guacimo, Costa Rica**

*(1 - 10 in the half-term). May be repeated for a maximum of 60 credits. May be elected more than once in the same term. Multiple*

*Grading Patterns.***STDABRD 303. CGIS: Environment and Sustainable Development in San Jose, Costa Rica**

*Minimum two semesters college-level Spanish, fulfilled by: SPANISH 100, SPANISH 102, RCLANG 194, or equivalent Background in appropriate social and natural sciences. (1 - 15). May be repeated for a maximum of 60 credits. May be elected more than once in the same term. Multiple Grading Patterns.*

**STDABRD 304. CGIS: Intensive Arabic Language and Culture in Amman, Jordan**

*2 semesters of Modern Standard Arabic. (1 - 15; 1 - 10 in the half-term). May be repeated for a maximum of 60 credits. Multiple Grading Patterns.*

**STDABRD 305. CGIS: Language and Culture in Rabat, Morocco**

*(1 - 15; 1 - 10 in the half-term). May be repeated for a maximum of 60 credits. Multiple Grading Patterns.*

**STDABRD 306. CGIS: Advanced Language and Culture in Madrid, Spain**

*Minimum four semesters college-level Spanish by program start date fulfilled by any of the following or an equivalent: SPANISH 230, SPANISH 232, RCLANG 294, or RCLANG 314. (1 - 15). May be repeated for a maximum of 75 credits. May be elected more than once in the same term. Multiple Grading Patterns.*

**STDABRD 307. CGIS: University Study in Egypt - American University in Cairo**

*Consent of department required. (1 - 15; 1 - 10 in the half-term). May be repeated for a maximum of 60 credits. May be elected more than once in the same term. Multiple Grading Patterns.*

**STDABRD 308. CGIS: EcoQuest Field Studies in Whakatiwai, New Zealand**

*(1 - 15; 1 - 10 in the half-term). May be repeated for a maximum of 60 credits. May be elected more than once in the same term. Multiple Grading Patterns.*

**STDABRD 309. CGIS: Frontiers Abroad - Geology and Earth Systems Science in Auckland and Christchurch, New Zealand**

*(1 - 15; 1 - 10 in the half-term). May be repeated for a maximum of 60 credits. May be elected more than once in the same term. Multiple Grading Patterns.*

**STDABRD 310. CGIS: International Development and French Language in Senegal**

*Minimum 3.0 GPA overall and in French classes; minimum 3 semesters college-level French or equivalent. (1 - 15). May be repeated for a maximum of 60 credits. May be elected more than once in the same term. Multiple Grading Patterns.*

**STDABRD 315. CGIS: Wildlife Management Studies in Rhotia, Tanzania**

*(1 - 15; 1 - 10 in the half-term). May be repeated for a maximum of 60*



credits. May be elected more than once in the same term. Multiple Grading Patterns.

**STDABRD 320. CGIS: Marine Resource Studies in The Turks and Caicos Islands**

(1 - 15; 1 - 10 in the half-term). May be repeated for a maximum of 60 credits. May be elected more than once in the same term. Multiple Grading Patterns.

**STDABRD 324. CGIS: University Study in India - Ashoka University**

(1 - 10 in the half-term). May be repeated for a maximum of 60 credits. May be elected more than once in the same term. Multiple Grading Patterns.

**STDABRD 325. CGIS: Chinese Studies in Beijing, China**

(1 - 10 in the half-term). May be repeated for a maximum of 60 credits. May be elected more than once in the same term. (Beijing, China). Su. Multiple Grading Patterns.

**STDABRD 330. CGIS: Budapest Semesters in Mathematics in Budapest, Hungary**

(1 - 15; 1 - 10 in the half-term). May be repeated for a maximum of 60 credits. May be elected more than once in the same term. Multiple Grading Patterns.

**STDABRD 331. CGIS: Art and Music in Vienna, Austria**

(1 - 10 in the half-term). May be repeated for a maximum of 60 credits. May be elected more than once in the same term. Multiple Grading Patterns.

**STDABRD 332. CGIS: Central European Studies at Charles University in Prague, Czech Republic**

(1 - 15). May be repeated for a maximum of 60 credits. May be elected more than once in the same term. (Prague, Czech Republic). F, W. Multiple Grading Patterns.

**STDABRD 333. CGIS: Reading and Writing Fairytales in Reykjavik, Iceland**

(1 - 10 in the half-term). May be repeated for a maximum of 60 credits. May be elected more than once in the same term. Multiple Grading Patterns.

**STDABRD 335. CGIS: Archaeology in Athens and Olynthos, Greece**

(1 - 10 in the half-term). May be repeated for a maximum of 60 credits. May be elected more than once in the same term. Multiple Grading Patterns.

**STDABRD 340. CGIS: Liberal Arts in Athens, Greece**

(1 - 15; 1 - 10 in the half-term). May be repeated for a maximum of 60 credits. May be elected more than once in the same term. Multiple Grading Patterns.

**STDABRD 341. CGIS: Summer Study Abroad in Athens or the Greek Isles, Greece**

(1 - 10 in the half-term). May be repeated for a maximum of 60 credits. May be elected more than once in the same term. Multiple

Grading Patterns.

**STDABRD 342. CGIS: Asian Culture and Society in Tokyo, Japan**

(1 - 10 in the half-term). May be repeated for a maximum of 60 credits. May be elected more than once in the same term. Multiple Grading Patterns.

**STDABRD 343. CGIS: University Study in Japan - Hitotsubashi University (Tokyo)**

(1 - 15). May be repeated for a maximum of 60 credits. May be elected more than once in the same term. Multiple Grading Patterns.

**STDABRD 344. CGIS: Contemporary London, in London, United Kingdom**

(1 - 10 in the half-term). May be repeated for a maximum of 60 credits. May be elected more than once in the same term. May not be elected Pass/Fail. (London, England). Sp. Multiple Grading Patterns.

**STDABRD 345. CGIS: University Study in Germany - University of Tuebingen**

3-4 semesters college-level German or equivalent. (1 - 15). May be repeated for a maximum of 60 credits. May be elected more than once in the same term. (Tübingen, Germany). F, W. Multiple Grading Patterns.

**STDABRD 346. CGIS: Advanced Russian Language and Culture in Russia**

Minimum 4 semesters of college Russian, with average of B or better in language courses. (1 - 15). May be repeated for a maximum of 60 credits. May be elected more than once in the same term. (Russia) F, W. Multiple Grading Patterns.

**STDABRD 347. CGIS: University Study in Japan - Waseda University (Tokyo)**

(1 - 15). May be repeated for a maximum of 60 credits. May be elected more than once in the same term. Multiple Grading Patterns.

**STDABRD 348. CGIS: Intercultural and Business Communication in Hikone, Japan**

(1 - 10 in the half-term). May be repeated for a maximum of 60 credits. May be elected more than once in the same term. Multiple Grading Patterns.

**STDABRD 349. CGIS: Language and Culture in Hikone, Japan**

One year proficiency in Japanese. (1 - 15). May be repeated for a maximum of 60 credits. May be elected more than once in the same term. (Hikone, Shiga, Japan). F, W. Multiple Grading Patterns.

**STDABRD 350. CGIS: University Study in France - Sciences Po Aix-en-Provence**

Minimum 6 semesters college level French or equivalent. (1 - 15). May be repeated for a maximum of 60 credits. May be elected more than once in the same term. (Marseille, France). F, W. Multiple Grading Patterns.

**STDABRD 351. CGIS: Academic Year in Freiburg, Germany**

Minimum two years of college-level German. (1 - 15). May be repeated for a maximum of 60 credits. May be elected more than once in the same term. (Freiburg, Germany). F, W. Multiple Grading Patterns.

**STDABRD 352. CGIS: University Study in Singapore - National University of Singapore**

(1 - 15). May be repeated for a maximum of 60 credits. May be elected more than once in the same term. Multiple Grading Patterns.

**STDABRD 353. CGIS: Classical Studies (ICCS) in Rome, Italy**

(1 - 15). May be repeated for a maximum of 60 credits. May be elected more than once in the same term. (Rome, Italy). F, W. Multiple Grading Patterns.

**STDABRD 354. CGIS: Metropolitan Studies in Berlin, Germany**

(1 - 15). May be repeated for a maximum of 60 credits. May be elected more than once in the same term. Multiple Grading Patterns.

**STDABRD 355. CGIS: Advanced French Language in Paris, France**

5 semesters of college level French or equivalent. (1 - 15). May be repeated for a maximum of 60 credits. May be elected more than once in the same term. Multiple Grading Patterns.

**STDABRD 356. CGIS: European Union Summer Program in Brussels and Leuven, Belgium**

(1 - 10 in the half-term). May be repeated for a maximum of 60 credits. May be elected more than once in the same term. Multiple Grading Patterns.

**STDABRD 360. CGIS: Intensive Chinese Language and Culture in Taipei, Taiwan**

Minimum 2 semesters college-level Mandarin or the equivalent. (1 - 15). May be repeated for a maximum of 60 credits. May be elected more than once in the same term. (Taipei, Taiwan). F,W. Multiple Grading Patterns.

**STDABRD 362. CGIS: Intensive Russian Language and Culture in St. Petersburg, Russia**

Minimum 4 semesters-college Russian (oral proficiency score of Intermediate or better). (1 - 15). May be repeated for a maximum of 60 credits. May be elected more than once in the same term. (St. Petersburg, Russia). F,W. Multiple Grading Patterns.

**STDABRD 363. CGIS: Liberal Arts in Santiago, Chile**

Successful completion of one of the following courses, or equivalent (with approval from your CGIS Intercultural Programs Advisor): SPANISH 275 & 276, or SPANISH 277, or RCLANG 324 Spanish language course within the past year recommended. (1 - 15). May be repeated for a maximum of 60 credits. May be elected more than once in the same term. (Santiago, Chile). F,W. Multiple Grading Patterns.

**STDABRD 364. CGIS: University Study in the UK - University of Sussex**

(1 - 15). May be repeated for a maximum of 60 credits. May be elected more than once in the same term. (Brighton, England). F,W. Multiple Grading Patterns.

**STDABRD 365. CGIS: Development and Globalization in Khon Kaen, Thailand**

(1 - 15). May be repeated for a maximum of 60 credits. May be elected more than once in the same term. Multiple Grading Patterns.

**STDABRD 366. CGIS: Public Health in Santiago, Dominican Republic**

College-level coursework in public health recommended. Minimum four semesters college-level Spanish, fulfilled by one of the following or equivalent: SPANISH 230, SPANISH 232, or RCLANG 294, RCLANG 314. (1 - 10 in the half-term). May be repeated for a maximum of 60 credits. May be elected more than once in the same term. (Santo Domingo, Dominican Republic). Su. Multiple Grading Patterns.

**STDABRD 367. CGIS: Baseball and Society in Santo Domingo, Dominican Republic**

(1 - 10 in the half-term). May be repeated for a maximum of 60 credits. May be elected more than once in the same term. Multiple Grading Patterns.

**STDABRD 368. CGIS: Ethics and Sports Development in Santo Domingo, Dominican Republic**

(1 - 10 in the half-term). May be repeated for a maximum of 60 credits. May be elected more than once in the same term. Multiple Grading Patterns.

**STDABRD 370. CGIS: Public Health in Ho Chi Minh City, Vietnam**

(1 - 15; 1 - 10 in the half-term). May be repeated for a maximum of 60 credits. May be elected more than once in the same term. Multiple Grading Patterns.

**STDABRD 372. CGIS: Development, Public Health, and Environment in Ho Chi Minh City, Vietnam**

(1 - 15). May be repeated for a maximum of 60 credits. May be elected more than once in the same term. Multiple Grading Patterns.

**STDABRD 373. CGIS: Intensive Language and Culture in Santiago, Chile**

Successful completion of at least three upper 200 or 300 level courses in RLL prior to the start of the program. (1 - 10 in the half-term). May be repeated for a maximum of 60 credits. May be elected more than once in the same term. Multiple Grading Patterns.

**STDABRD 374. CGIS: University Study in South Korea - Yonsei University (Seoul)**

(1 - 15). May be repeated for a maximum of 60 credits. May be elected more than once in the same term. (Seoul, South Korea). F, W, Su. Multiple Grading Patterns.

**STDABRD 375. CGIS: Cuban Culture and Society in Havana, Cuba**

2 semesters of Spanish or equivalent. (1 - 10 in the half-term). May be repeated for a maximum of 60 credits. May be elected more than once in the same term. Multiple Grading Patterns.

**STDABRD 381. CGIS: Advanced Italian Language in Bologna, Italy**

Minimum 5 semesters college-level Italian or equivalent (Winter); Minimum 4 semesters college-level Italian or equivalent (Academic

Year). (1 - 15). May be repeated for a maximum of 60 credits. May be elected more than once in the same term. Multiple Grading Patterns.

**STDABRD 382. CGIS: Language and Culture in Ferrara, Italy**  
(1 - 15). May be repeated for a maximum of 60 credits. May be elected more than once in the same term. Multiple Grading Patterns.

**STDABRD 383. CGIS: Language and Culture in Rome, Italy**  
(1 - 15). May be repeated for a maximum of 60 credits. May be elected more than once in the same term. Multiple Grading Patterns.

**STDABRD 390. CGIS: Spanish Studies in Granada, Spain**  
Minimum four semesters college-level Spanish by program start date, fulfilled by one of the following or equivalent: SPANISH 230, SPANISH 232, SPANISH 294, RCLANG 314. (1 - 15). May be repeated for a maximum of 60 credits. May be elected more than once in the same term. (Granada, Spain). W. Multiple Grading Patterns.

**STDABRD 401. CGIS: Study Abroad in Scandinavia (DIS) in Copenhagen, Denmark**  
(1 - 15; 1 - 10 in the half-term). May be repeated for a maximum of 60 credits. May be elected more than once in the same term. Multiple Grading Patterns.

**STDABRD 402. CGIS: University Study in the Netherlands - Leiden University**  
(1 - 15). May be repeated for a maximum of 60 credits. May be elected more than once in the same term. (Leiden, The Netherlands). F,W. Multiple Grading Patterns.

**STDABRD 403. CGIS: Quechua Language in Cusco, Peru**  
(1 - 10 in the half-term). May be repeated for a maximum of 60 credits. May be elected more than once in the same term. Multiple Grading Patterns.

**STDABRD 405. CGIS: Brazilian Studies and Portuguese Language in Sao Paulo, Brazil**  
(1 - 15; 1 - 10 in the half-term). May be repeated for a maximum of 60 credits. May be elected more than once in the same term. Multiple Grading Patterns.

**STDABRD 410. CGIS: University of Geneva (UNIGE) in Geneva, Switzerland**  
FRENCH 235. Students with only FRENCH 232 must enroll in Oral Intermediate 2. Other students will attend the Summer 9-wk Session for beginners. Summer 3-wk or 6-wk session strongly recommended for coursework at UNIGE. (1 - 15). May be repeated for a maximum of 60 credits. May be elected more than once in the same term. Multiple Grading Patterns.

**STDABRD 440. CGIS: University Study in Ireland - University College Dublin**  
(1 - 15). May be repeated for a maximum of 60 credits. May be elected more than once in the same term. Multiple Grading Patterns.

**STDABRD 441. CGIS: STEM Summer Research Program in Dublin,**

**Ireland**  
(1 - 10 in the half-term). May be repeated for a maximum of 60 credits. May be elected more than once in the same term. Multiple Grading Patterns.

**STDABRD 445. CGIS: STEM Summer Research Program in Glasgow, Scotland**  
(1 - 10 in the half-term). May be repeated for a maximum of 60 credits. May be elected more than once in the same term. Multiple Grading Patterns.

**STDABRD 451. CGIS: University Study in the UK - University of Oxford, Hertford College**  
(1 - 15). May be repeated for a maximum of 60 credits. May be elected more than once in the same term. Multiple Grading Patterns.

**STDABRD 452. CGIS: University Study in the UK - University of Oxford, St. Peter's College**  
(1 - 10 in the half-term). May be repeated for a maximum of 60 credits. May be elected more than once in the same term. (Oxford, England). Su. Multiple Grading Patterns.

**STDABRD 456. CGIS: University Study in the UK - London School of Economics and Political Science**  
(1 - 15). May be repeated for a maximum of 60 credits. May be elected more than once in the same term. (London, England). F,W. Multiple Grading Patterns.

**STDABRD 457. CGIS: STEM Summer Research Program in London, United Kingdom**  
(1 - 15). May be repeated for a maximum of 60 credits. May be elected more than once in the same term. Multiple Grading Patterns.

**STDABRD 458. CGIS: University Study in the UK - University of St. Andrews**  
(1 - 15). May be repeated for a maximum of 60 credits. May be elected more than once in the same term. (St Andrews, Scotland). F,W. Multiple Grading Patterns.

**STDABRD 459. CGIS: Spanish Literature and Culture in Seville, Spain**  
Minimum five semesters college-level Spanish by program start date, fulfilled by one of the following or equivalent: SPANISH 275, SPANISH 276, SPANISH 277, RCLANG 324. (1 - 15). May be repeated for a maximum of 60 credits. May be elected more than once in the same term. (Seville, Spain). F,W. Multiple Grading Patterns.

**STDABRD 460. CGIS: Study Abroad in Scandinavia (DIS) in Stockholm, Sweden**  
(1 - 15; 1 - 10 in the half-term). May be repeated for a maximum of 60 credits. May be elected more than once in the same term. Multiple Grading Patterns.

**STDABRD 461. CGIS: University Study in Sweden - Uppsala University**  
(1 - 15). May be repeated for a maximum of 60 credits. May be elected more than once in the same term. (Uppsala, Sweden). F,W. Multiple Grading Patterns.

**STDABRD 462. CGIS: University Study in Sweden - Stockholm University**

(1 - 15). May be repeated for a maximum of 60 credits. May be elected more than once in the same term. Multiple Grading Patterns.

**STDABRD 463. CGIS: Central European Studies in Warsaw, Poland**  
(1 - 15). May be repeated for a maximum of 60 credits. May be elected more than once in the same term. (Prague, Budapest or Warsaw). F,W. Multiple Grading Patterns.

**STDABRD 465. CGIS: University Study in Switzerland - University of Lausanne**  
Completion of FRENCH 235 or equivalent. (1 - 15). May be repeated for a maximum of 60 credits. May be elected more than once in the same term. (Lausanne, Switzerland). F,W. Multiple Grading Patterns.

**STDABRD 466. CGIS: University Study in Japan - Kyushu University**  
(1 - 15). May be repeated for a maximum of 60 credits. May be elected more than once in the same term. (Fukuoka, Japan). F,W. Multiple Grading Patterns.

**STDABRD 468. CGIS: University Study in Australia - University of New South Wales (Sydney)**  
(1 - 15). May be repeated for a maximum of 60 credits. May be elected more than once in the same term. (Sydney, Australia). F,W. Multiple Grading Patterns.

**STDABRD 472. CGIS: University Study in Turkey - Bogazici University (Istanbul)**  
(1 - 15; 1 - 8 in the half-term). May be repeated for a maximum of 60 credits. May be elected more than once in the same term. (Istanbul, Turkey). Multiple Grading Patterns.

**STDABRD 473. CGIS: Study in Istanbul, Turkey**  
(1 - 15). May be repeated for a maximum of 60 credits. Multiple Grading Patterns.

**STDABRD 480. CGIS: University Study in the UK - King's College London**  
(1 - 15). May be repeated for a maximum of 60 credits. May be elected more than once in the same term. Multiple Grading Patterns.

**STDABRD 481. CGIS: University Study in the UK - Queen Mary University in London**  
(1 - 15). May be repeated for a maximum of 60 credits. May be elected more than once in the same term. (London, England). F,W. Multiple Grading Patterns.

**STDABRD 483. CGIS: University Study in the UK - University College London**  
(1 - 15). May be repeated for a maximum of 60 credits. May be elected more than once in the same term. (London, England). F,W. Multiple Grading Patterns.

**STDABRD 486. CGIS: University Study in France - Sciences Po Paris**  
Minimum 6 semesters college-level French (or the equivalent).

Significant course work in political science or other social science. (1 - 15). May be repeated for a maximum of 60 credits. May be elected more than once in the same term. (Paris, France). F,W. Multiple Grading Patterns.

**STDABRD 487. CGIS: University Study in South Africa - University of Cape Town**  
(1 - 15). May be repeated for a maximum of 60 credits. May be elected more than once in the same term. (Cape Town, South Africa). F,W. Multiple Grading Patterns.

**STDABRD 488. CGIS: Public Health in Cape Town, South Africa**  
(1 - 10 in the half-term). May be repeated for a maximum of 60 credits. May be elected more than once in the same term. Multiple Grading Patterns.

**STDABRD 489. CGIS: University Study in Australia - University of Melbourne**  
(1 - 15). May be repeated for a maximum of 75 credits. May be elected more than once in the same term. (Melbourne, Australia). F,W. Multiple Grading Patterns.

**STDABRD 494. CGIS: Language and Culture in Buenos Aires, Argentina**  
Consent of department required. (1 - 15). May be repeated for a maximum of 60 credits. May be elected more than once in the same term. Multiple Grading Patterns.

**STDABRD 495. CGIS: Sport and Culture in Contemporary Argentina (Buenos Aires)**  
(1 - 10 in the half-term). May be repeated for a maximum of 60 credits. May be elected more than once in the same term. Multiple Grading Patterns.

**STDABRD 496. CGIS: Advanced Spanish Language in Buenos Aires, Argentina**  
Minimum 4 semesters college-level Spanish by program start date, fulfilled by: SPANISH 232, SPANISH 230, RCLANG 294, RCLANG 314, or equivalent. (1 - 15). May be repeated for a maximum of 60 credits. May be elected more than once in the same term. Multiple Grading Patterns.

## Courses in LSA History

### History (HISTORY)

**HISTORY 101 / INTLSTD 205. What is History?**  
(4; 3 in the half-term). (HU). (R&E). May not be repeated for credit.

**HISTORY 102. A History of the Present**  
(4; 3 in the half-term). (HU). May not be repeated for credit.

**HISTORY 103. Introduction to History in the Humanities**  
(4; 3 in the half-term). (HU). May not be repeated for credit.

**HISTORY 104. Introduction to History in the Social Sciences**  
(4; 3 in the half-term). (SS). May not be repeated for credit.

**HISTORY 105. Introduction to Religion**  
(4; 3 in the half-term). (ID). (R&E). May not be repeated for credit.

**HISTORY 195. The Writing of History**  
(4). (FYWR). May not be repeated for credit. This course may not be included in a History major. F.

**HISTORY 196. First Year Seminar in Social Sciences**  
Enrollment restricted to first-year students, including those with sophomore standing. (3). (SS). May not be repeated for credit.

**HISTORY 197. First-Year Seminar in the Humanities**  
Enrollment restricted to first-year students, including those with sophomore standing. (3). (HU). May not be repeated for credit.

**HISTORY 200. Ancient Greece to 323 B.C.E.**  
(4). (HU). May not be repeated for credit.

**HISTORY 201. Rome**  
(4). (HU). May not be repeated for credit. W.

**HISTORY 202. Doing History**  
(3). May not be repeated for credit. HISTORY 202 is a required gateway seminar for history concentrators, to be taken the academic term after declaring the concentration.

**HISTORY 203 / ASIAN 200. Introduction to Japanese Civilization**  
(4). (HU). May not be repeated for credit.

**HISTORY 204 / ASIAN 204. East Asia: Early Transformations**  
(4; 3 in the half-term). (HU). (R&E). May not be repeated for credit.

**HISTORY 205 / ASIAN 205. Modern East Asia**  
(4; 3 in the half-term). (SS). (R&E). May not be repeated for credit.

**HISTORY 206 / ASIAN 206. Indian Civilization**  
(4; 3 in the half-term). (HU). May not be repeated for credit.

**HISTORY 207 / ASIAN 207. Southeast Asian Civilization**  
(4; 3 in the half-term). (SS). (R&E). May not be repeated for credit.

**HISTORY 210 / MEMS 210. Early Medieval Europe, 300-1000**  
(4; 3 in the half-term). (SS). (R&E). May not be repeated for credit. F.

**HISTORY 211 / MEMS 211. Later Medieval Europe, 1000-1500**  
(4). (SS). (R&E). May not be repeated for credit. W.

**HISTORY 212 / MEMS 212. Renaissance Europe**  
(4). (HU). May not be repeated for credit.

**HISTORY 215. The History of Disaster**  
(4; 3 in the half-term). (HU). May not be repeated for credit.

**HISTORY 216. War and Society in the 20th Century: World War I**  
(3 - 4; 3 in the half-term). (HU). May not be repeated for credit.

**HISTORY 219 / ASIAN 210. The Philippines: Culture and History**  
(3). (HU). (R&E). May not be repeated for credit.

**HISTORY 223 / ENVIRON 223. Trashed! A History of Garbage in the Modern World**  
(4; 3 in the half-term). (ID). May not be repeated for credit.

**HISTORY 224 / ENVIRON 224 / PUBPOL 224. Global Nuclear Proliferation**  
(4; 3 in the half-term). (SS). May not be repeated for credit.

**HISTORY 226 / AAS 236 / AMCULT 226 / LACS 226 / LATINOAM 226. The Latin Tinge: Latin Music in Social Context in Latin America and the U.S.**  
(4; 3 in the half-term). (HU). (R&E). May not be repeated for credit.

**HISTORY 227. The Rise and Fall of the British Empire**  
(4). May not be repeated for credit.

**HISTORY 228 / ANTHRCUL 317 / POLSCI 334 / REEES 397 / SLAVIC 397 / SOC 317. Communism and Capitalism in Eastern Europe**  
(4). (SS). May not be repeated for credit. No credit granted to those who have completed or are enrolled in REEES 396 or SLAVIC 396 or POLSCI 396 or HISTORY 333 or SOC 393.

**HISTORY 229 / ANTHRCUL 226. Introduction to Historical Anthropology**  
(3). (SS). May not be repeated for credit.

**HISTORY 230. Humanities Topics in History**  
(3 - 4; 3 in the half-term). (HU). May be elected five times for credit.

**HISTORY 231. Social Science Topics in History**  
(3 - 4; 3 in the half-term). (SS). May be elected five times for credit.

**HISTORY 232. Interdisciplinary Topics in History**  
(3 - 4; 3 in the half-term). (ID). May be elected three times for credit. May be elected more than once in the same term.

**HISTORY 233. History of Sexually Transmitted Diseases from Syphilis to AIDS**  
(4; 3 in the half-term). (ID). May not be repeated for credit.

**HISTORY 234. History of Medicine in the Western World from the 18th Century to the Present**  
(4; 3 in the half-term). (ID). May not be repeated for credit.

**HISTORY 235 / POLSCI 316. History of Law and Social Justice**

(3 - 4; 3 in the half-term). (SS). May not be repeated for credit.

**HISTORY 236 / ENVIRON 236. Environment and History in Preindustrial Europe**

(3). (ID). May not be repeated for credit.

**HISTORY 237 / ENVIRON 237. Global Environmental History**

(4; 3 in the half-term). (ID). May not be repeated for credit.

**HISTORY 238 / ALA 238 / EARTH 238 / ENVIRON 238 / NEAREAST 278. Zoom: A History of Everything**

(4; 3 - 4 in the half-term). (ID). May not be repeated for credit.

**HISTORY 239. The World Before 1492**

(4; 3 in the half-term). (HU). May not be repeated for credit.

**HISTORY 240. The World Since 1492**

(4; 3 in the half-term). (SS). (R&E). May not be repeated for credit. Meets pre-1800 and transregional requirements in History.

**HISTORY 241 / ISLAM 241. America and Middle Eastern Wars**

(4). (SS). May not be repeated for credit.

**HISTORY 242 / NEAREAST 201. Madness, Medicine, and Magic in the Middle East**

(3). (HU). May not be repeated for credit.

**HISTORY 243 / ISLAM 243 / MENAS 243. The Dawn of Islamic History**

(4; 3 in the half-term). (HU). May not be repeated for credit.

**HISTORY 244 / JUDAIC 244 / MENAS 244 / NEAREAST 284. The History of the Arab-Israeli Conflict**

(4; 3 in the half-term). (SS). (R&E). May not be repeated for credit.

**HISTORY 245 / AAS 245 / ISLAM 245. Islam in Africa**

Students will receive no credit if previously taken as HISTORY 357, Topic 3 "Islam in Africa". (Prerequisites enforced at registration.) (3 - 4; 3 in the half-term). (HU). May not be repeated for credit.

**HISTORY 246 / AAS 246. Africa to 1850**

(4; 3 in the half-term). (SS). May not be repeated for credit.

**HISTORY 247 / AAS 247. Modern Africa**

(4; 3 in the half-term). (SS). (R&E). May not be repeated for credit.

**HISTORY 248 / ASIAN 248 / RELIGION 248. Jesus Comes to Asia: Conversion and its Consequences in Asia**

(4). (HU). (R&E). May not be repeated for credit.

**HISTORY 249 / ASIAN 274. Introduction to Korean Civilization**

(3). (HU). May not be repeated for credit.

**HISTORY 250. China from the Oracle Bones to the Opium War**

(3). (HU). May not be repeated for credit. F.

**HISTORY 251 / ASIAN 241. The Chinese Renaissance: Cultural Transformations in Eleventh-Century China**

(3). (ID). May not be repeated for credit.

**HISTORY 252 / ASIAN 260. Introduction to Chinese Civilization**

(4). (HU). (R&E). May not be repeated for credit. No assumed knowledge of Chinese history, culture, or language required.

**HISTORY 253 / MEMS 253. Europe, 300-1648: The Rise and Fall of the Middle Ages**

(4; 3 in the half-term). (SS). May not be repeated for credit.

**HISTORY 254. Europe, 1648-Present: Legacies of War, Empire, and Revolution**

(4; 3 in the half-term). (SS). May not be repeated for credit.

**HISTORY 255 / ASIAN 259. The History of Modern South Asia**

(4; 3 in the half-term). (HU). (R&E). May not be repeated for credit.

**HISTORY 257 / CLCIV 257 / JUDAIC 257. Ancient Law**

(4; 3 in the half-term). (HU). May not be repeated for credit.

**HISTORY 258 / JUDAIC 210. Sources of Jewish History**

(3). (HU). May not be repeated for credit.

**HISTORY 259 / JUDAIC 339 / NEAREAST 339 / RELIGION 358. Israel Before the Exile (587 BCE): Its History & Religion**

(4; 3 in the half-term). (HU). May not be repeated for credit.

**HISTORY 260. United States to 1865**

(4; 3 in the half-term). (SS). May not be repeated for credit.

**HISTORY 261. United States, 1865 to the Present**

(4; 3 in the half-term). (SS). (R&E). May not be repeated for credit.

**HISTORY 262 / AMCULT 263. The American South**

(4; 3 in the half-term). (SS). (R&E). May not be repeated for credit.

**HISTORY 266. Twentieth-Century American Wars as Social and Personal Experience**

(4; 3 in the half-term). (HU). May not be repeated for credit.

**HISTORY 267 / AAS 267 / AMCULT 267. Religion in the Making of African America**

(3). May not be repeated for credit.

**HISTORY 269 / JUDAIC 260 / RELIGION 260. Introduction to the Talmud and the Rabbis**

(3). (HU). May not be repeated for credit.

**HISTORY 270 / AMCULT 270. Religion in America**

(4). (HU). May not be repeated for credit.

**HISTORY 272 / AAS 262. The Modern Civil Rights Movement**  
(4; 3 in the half-term). (R&E). May not be repeated for credit.

**HISTORY 274 / AAS 230. Survey of Afro-American History I**  
AAS 111. (3). (SS). May not be repeated for credit.

**HISTORY 275 / AAS 231. Survey of Afro-American History, II**  
AAS 111. (3). (SS). May not be repeated for credit.

**HISTORY 277 / CLCIV 277 / ENVIRON 277. Environmental History of the Ancient Mediterranean**  
(3). (HU). May not be repeated for credit.

**HISTORY 280. The Civil War Era in U.S. History**  
(4; 3 in the half-term). (HU). May not be repeated for credit.

**HISTORY 282. A History of the Economy**  
(4; 3 in the half-term). (SS). May not be repeated for credit.

**HISTORY 284 / AMCULT 284. Sickness and Health in Society: 1492 to the Present**  
First-year students must obtain permission of the instructor. (3 - 4; 3 in the half-term). (SS). May not be repeated for credit. **Those who miss the first meeting without advance permission will be dropped from the course..**

**HISTORY 285 / RCSSCI 275. Science, Technology, Medicine, and Society**  
(4). (SS). May not be repeated for credit.

**HISTORY 288 / ASIAN 275. India Calling: Culture and Society in Contemporary India**  
(3). (HU). May not be repeated for credit.

**HISTORY 290 / JUDAIC 290 / NEAREAST 287. Jews and Muslims**  
(3). (HU). May not be repeated for credit.

**HISTORY 292 / CLCIV 392. Ancient Medicine in Greece & Rome**  
(4). (HU). May not be repeated for credit.

**HISTORY 296 / PSYCH 296 / WOMENSTD 296. Gender, Sex Differences, and Addiction: Girls Gone Wild**  
(3 - 4; 3 in the half-term). (SS). May not be repeated for credit.

**HISTORY 300 / ASTRO 300. The Beginning and The End: A History of Cosmology**  
(3). (ID). May not be repeated for credit.

**HISTORY 301 / ASTRO 301. Discovery of the Universe**  
(3). (ID). May not be repeated for credit.

**HISTORY 302 / CLCIV 302. The Roman Republic**  
(4). (HU). May not be repeated for credit.

**HISTORY 303 / CLCIV 303 / WOMENSTD 303. Roman Women**  
(3). (HU). May not be repeated for credit.

**HISTORY 306 / ISLAM 319 / NEAREAST 319. History of the Ottoman Empire: The "Classical Age", (ca. 1300-1600)**  
Not available to students who have completed AAPTIS 291 (#16) or HISTORY 303 (# 10) when taught with the topic "Ten Sultans, One Empire: The Ottoman Classical Age". (Prerequisites enforced at registration.) (3). (HU). May not be repeated for credit.

**HISTORY 307 / ISLAM 320 / NEAREAST 320. History of the Ottoman Empire: The "Post-Classical Age", (ca. 1600-1922)**  
Not available to students who have completed AAPTIS 291 (#17) or HISTORY 303 (# 13) when taught with the topic "The Ottoman Empire in the 'Post Classical Age'". (Prerequisites enforced at registration.) (3). (HU). May not be repeated for credit.

**HISTORY 308 / ASIAN 307 / RELIGION 307. Eat, Pray, Love: Devotional Traditions in South Asia**  
ASIAN 220 or 225. (3). (HU). May not be repeated for credit.

**HISTORY 309. After Alexander: The Hellenistic Age in the Mediterranean and the Near East**  
HISTORY 200 or 201. (3). (HU). (R&E). May not be repeated for credit.

**HISTORY 312 / POLSCI 362. History of European Integration**  
(4; 3 in the half-term). (ID). May not be repeated for credit.

**HISTORY 313 / FRENCH 344. The Revolutionary Century: France, 1789-1900**  
(4; 3 in the half-term). (SS). May not be repeated for credit.

**HISTORY 314 / FRENCH 345. Empire, War, and Modernity: France and the World in the 20th Century**  
(4; 3 in the half-term). (SS). May not be repeated for credit.

**HISTORY 315 / AMCULT 308. American Constitutional History**  
Students should have a good general knowledge of United States History, such as that acquired in HISTORY 260 and 261, or equivalent rigorous high school history courses. (4; 3 in the half-term). (SS). May not be repeated for credit.

**HISTORY 316 / MEMS 316 / WOMENSTD 316. Women and Gender in Medieval Europe: 500-1500**  
One course in Women's Studies or History. (3). (SS). May not be repeated for credit.

**HISTORY 317 / MEMS 317 / WOMENSTD 317. Women and Gender in Early Modern Europe, 1500-1800**  
At least one course in WOMENSTD or HISTORY. (3). (HU). May not be repeated for credit.

**HISTORY 318. Europe in the Era of Total War, 1870-1945**  
(4; 3 in the half-term). (SS). May not be repeated for credit. F.

**HISTORY 319. Europe Since 1945**  
(4; 3 in the half-term). (SS). May not be repeated for credit.

**HISTORY 320. Britain, 1901-1939: Culture and Politics**  
(4; 3 in the half-term). (HU). (R&E). May not be repeated for credit.

**HISTORY 321. Culture and Politics in Britain Since 1945**  
(4; 3 in the half-term). (HU). May not be repeated for credit.

**HISTORY 322 / GERMAN 322. The Origins of Nazism**  
(4). (HU). (R&E). May not be repeated for credit. Taught in English.

**HISTORY 323 / FRENCH 343 / MEMS 323. French Enlightenment**  
(3). (HU). May not be repeated for credit.

**HISTORY 324. Muslims in Contemporary Europe**  
(3). (HU). (R&E). May not be repeated for credit.

**HISTORY 325 / ASIAN 324 / ISLAM 325 / MEMS 325 / NEAREAST 375 / RELIGION 325. The History of Islam in South Asia**  
(4). (HU). (R&E). May not be repeated for credit.

**HISTORY 326 / ITALIAN 314. Modern Italy: 1815 to Present**  
(3). May not be repeated for credit.

**HISTORY 327 / WOMENSTD 327. The History of Sexuality**  
(4; 3 in the half-term). (HU). May not be repeated for credit.

**HISTORY 328. Humanities Topics in History**  
(3 - 4; 3 in the half-term). (HU). May be elected five times for credit.

**HISTORY 329. Social Science Topics in History**  
(3 - 4; 3 in the half-term). (SS). May be elected five times for credit.

**HISTORY 330 / POLISH 330. Poland from the Medieval to the Modern**  
(4; 3 in the half-term). (HU). May not be repeated for credit.

**HISTORY 331 / POLISH 331. Poland in the Modern World**  
(4; 3 in the half-term). (HU). May not be repeated for credit.

**HISTORY 332 / POLSCI 395 / REEES 395 / SLAVIC 395 / SOC 392. Russia and the Soviet Union: Reform, Revolution, and the Socialist Experiment**  
(4; 3 in the half-term). (SS). May not be repeated for credit. May not be counted in a Slavic Department academic minor. F.

**HISTORY 335 / AMCULT 385 / LATINOAM 385. Immigration Law: Critical Approaches to Contemporary Issues**  
(3 - 4; 3 in the half-term). (SS). May not be repeated for credit.

**HISTORY 336 / AAS 336 / WOMENSTD 336. Black Women in the United States, Part I: From the American Revolution through the Women's Era**  
AAS 201 (CAAS 201). (3). May not be repeated for credit. No credit granted to those who completed AAS 337 prior to Winter 2012.

**HISTORY 339 / ASIAN 365 / CLCIV 339. Doctors in the Ancient World: China, Greece, and Rome**  
(3). (HU). May not be repeated for credit.

**HISTORY 340 / ASIAN 340 / MENAS 340 / NEAREAST 340 / REEES 340. From Genghis Khan to the Taliban: Modern Central Asia**  
(4; 3 - 4 in the half-term). (SS). (R&E). May not be repeated for credit.

**HISTORY 343 / AMCULT 341. Rise of the Corporation**  
(3). (SS). May not be repeated for credit.

**HISTORY 344 / RCSSCI 344. The History of Detroit in the 20th Century**  
Sophomore standing. (4). (SS). May not be repeated for credit.

**HISTORY 345 / RCSSCI 357. History and Theory of Punishment**  
(4). May not be repeated for credit.

**HISTORY 346 / AMCULT 348. History of American Radicalism**  
(4; 3 in the half-term). (SS). May not be repeated for credit.

**HISTORY 347 / ANTHRCUL 346. Latin America: The Colonial Period**  
(4). (SS). May not be repeated for credit.

**HISTORY 348. Latin America: The National Period**  
(4; 3 in the half-term). (SS). (R&E). May not be repeated for credit.

**HISTORY 349 / LACS 349. Revolutionary Movements in Modern Latin America**  
(4; 3 in the half-term). (ID). May not be repeated for credit.

**HISTORY 350 / HISTART 323 / JUDAIC 323 / NEAREAST 383 / RELIGION 324. History of Jewish Visual Culture: From Ancient Mosaics to Jew-Hop Videos**  
(3). (HU). May not be repeated for credit.

**HISTORY 352. Imperial China: Ideas, Men, and Society**  
(3). May not be repeated for credit.

**HISTORY 353 / AMCULT 366 / WOMENSTD 366. Sex and Sexuality in U.S. Popular Culture**  
(3). (HU). May not be repeated for credit.

**HISTORY 354 / ASIAN 354. War, Rebellion and Revolution in China Through Two Centuries**  
(4; 3 in the half-term). (SS). May not be repeated for credit.

**HISTORY 355 / AAS 355 / ANTHRCUL 355 / ISLAM 335. Health and Illness in African Worlds**



(4; 3 in the half-term). (R&E). May not be repeated for credit.

**HISTORY 356 / AMCULT 331 / WOMENSTD 356. Health in America: Patterns, Experiences, and Inequalities**  
(3 - 4). (ID). (R&E). May not be repeated for credit.

**HISTORY 358. Topics in Latin American History**  
(3). May be elected three times for credit.

**HISTORY 359. Visions of the Past**  
(3). May not be repeated for credit.

**HISTORY 360. September 11**  
(3). May not be repeated for credit.

**HISTORY 361. U.S. Intellectual History, 1750-1940**  
(3). (HU). May not be repeated for credit.

**HISTORY 362 / AAS 346 / ENGLISH 389. Literature in African History**  
(3). (HU). (R&E). May not be repeated for credit.

**HISTORY 363. The U.S. and the World Since 1945: Politics, Culture, and War in the American Century**  
(4; 3 in the half-term). May not be repeated for credit.

**HISTORY 365. New York Modern: The Cultures of the Great Metropolis, 1800-Present**  
(4; 3 in the half-term). (HU). May not be repeated for credit.

**HISTORY 366. Crime and Drugs in Modern America**  
(4; 3 in the half-term). (SS). May not be repeated for credit.

**HISTORY 367 / AMCULT 367 / NATIVEAM 367. American Indian History**  
(4; 3 in the half-term). (SS). (R&E). May not be repeated for credit.

**HISTORY 368 / AMCULT 342 / WOMENSTD 360. History of the Family in the U.S.**  
(4; 3 in the half-term). (ID). May not be repeated for credit.

**HISTORY 369 / AMCULT 369. The History of U.S. Mass Culture From Minstrelsy to Hip Hop**  
(4; 3 in the half-term). (HU). May not be repeated for credit.

**HISTORY 372 / WOMENSTD 372. Women and Gender in European History**  
(3). May not be repeated for credit.

**HISTORY 373 / AMCULT 373. History of the U.S. West**  
(4; 3 in the half-term). (HU). May not be repeated for credit.

**HISTORY 374 / AMCULT 374. The Politics and Culture of the "Sixties"**

(4; 3 in the half-term). (SS). (R&E). May not be repeated for credit.

**HISTORY 375 / WOMENSTD 375. A History of Witchcraft: The 1692 Salem Trials in Historical and Cross-Cultural Perspective**  
(4). (HU). May not be repeated for credit.

**HISTORY 376. Epidemics: Plagues and Cultures from the Black Death to the Present**  
(4; 3 in the half-term). (SS). May not be repeated for credit.

**HISTORY 377 / AMCULT 315 / LATINOAM 315. History of Latina/os in the U.S.**  
(3 - 4). (R&E). May not be repeated for credit. No credit granted to those who have completed or are enrolled in AMCULT 312 or HISTORY 312.

**HISTORY 378 / AMCULT 314 / ASIANPAM 314. History of Asian Americans in the U.S.**  
(4; 3 in the half-term). (SS). May not be repeated for credit.

**HISTORY 381 / CLCIV 380 / JUDAIC 380 / RELIGION 382. Ancient Jewish History to 638 CE: From Israelite Origins to Islamic Conquest**  
(3). (ID). May not be repeated for credit. No credit granted for students who have taken both ACABS 322 and ACABS 326.

**HISTORY 384 / JUDAIC 388. Antisemitism and Philosemitism: Jews in Myth and Thought**  
(3). (HU). (R&E). May not be repeated for credit.

**HISTORY 385 / ENVIRON 385. The Environmental History of China**  
(4; 3 in the half-term). (SS). May not be repeated for credit.

**HISTORY 386 / GERMAN 391 / JUDAIC 386. The Holocaust**  
(4). (SS). (R&E). May not be repeated for credit.

**HISTORY 387 / AMCULT 387 / JUDAIC 387. History of American Jews**  
(4; 3 in the half-term). May not be repeated for credit.

**HISTORY 388 / AAS 323 / WOMENSTD 323. Black Feminist Thought and Practice**  
(3). May not be repeated for credit.

**HISTORY 389 / ARMENIAN 389. From Natives to Foreigners: Armenians in Turkey and the Diaspora**  
(3). (SS). May not be repeated for credit. HISTORY / ARMENIAN 287.

**HISTORY 390. Topics Mini-Course**  
(1 - 2). May be elected three times for credit.

**HISTORY 391. Topics in European History**  
(3). May be repeated for a maximum of 6 credits.

**HISTORY 392. Topics in Asian History**

(3). *May be elected twice for credit.*

**HISTORY 393. Topics in U.S. History**

(3). *May be repeated for a maximum of 6 credits.*

**HISTORY 394 / ISLAM 394 / NEAREAST 376. History of the Turkish Republic**

(3). (HU). *May not be repeated for credit.*

**HISTORY 395. Reading Course**

*Consent of department required. Open only to History concentrators. (1 - 4; 1 - 3 in the half-term). (INDEPENDENT). May be repeated for a maximum of 8 credits. A maximum of eight credits can be elected through HISTORY 394 and 395. For the purposes of history concentration credit, no more than eight credits may be elected from HISTORY 395 (Independent Study).*

**HISTORY 396 / AAS 395 / GERMAN 396. Germany and the Black Diaspora**

(3). (HU). (R&E). *May not be repeated for credit.*

**HISTORY 398 / MEMS 398. The Black Death**

(3). (ID). *May not be repeated for credit.*

**HISTORY 399. Topics in History**

(3 - 4; 3 in the half-term). *May be elected five times for credit.*

**HISTORY 400. Problems in Greek History I**

(3). *May not be repeated for credit.*

**HISTORY 403. Problems in Roman History II**

(3). *May not be repeated for credit.*

**HISTORY 407. Advanced Study in Comparative and Transnational History**

(3 - 4; 3 in the half-term). *May be elected three times for credit. May be elected more than once in the same term.*

**HISTORY 408. The Byzantine Empire, 284-1453**

(3; 2 in the half-term). *May not be repeated for credit.*

**HISTORY 411 / POLSCI 319. The Politics of Civil Liberties and Civil Rights**

POLSCI 111. (4). (R&E). *May not be repeated for credit.*

**HISTORY 415 / ASIAN 415. Law and Society in Late Imperial and Modern China**

*Junior or senior standing. No prior knowledge of China or Chinese required. (3). May not be repeated for credit. Rackham credit requires additional work.*

**HISTORY 416 / GERMAN 401. Nineteenth-Century German and European Intellectual History**

(3). *May not be repeated for credit. Taught in English.*

**HISTORY 417 / GERMAN 402. Twentieth-Century German and European Thought**

(3). *May not be repeated for credit. Taught in English. German concentrators must be concurrently enrolled in GERMAN 404.*

**HISTORY 421 / AAS 421 / LACS 421 / RELIGION 421. Religions of the African Diaspora**

(3). *May not be repeated for credit. Rackham credit requires additional work.*

**HISTORY 422 / ASIAN 400 / RELIGION 400. Indian Religions and Western Thought**

*Junior and above. (3). May not be repeated for credit. Rackham credit requires additional work.*

**HISTORY 424 / ASIAN 424. Topics in Modern South Asian History**

(3 - 4; 3 in the half-term). *May be elected three times for credit. May be elected more than once in the same term. Rackham credit requires additional work.*

**HISTORY 429 / NEAREAST 432 / RELIGION 496 / WOMENSTD 471. Gender and Sexuality in Pre-Modern Islam**

*Students should preferably have had one course in Islamic Studies. (3). May not be repeated for credit.*

**HISTORY 432. Medieval and Early Modern Russia**

(3). *May not be repeated for credit.*

**HISTORY 433. Russia Under the Tsars: From Peter the Great to the Revolutions of 1917**

(3). *May not be repeated for credit.*

**HISTORY 434. Russia in the 20th Century: War, Revolution, and Reform**

(4). *May not be repeated for credit. W.*

**HISTORY 437. Drug Lords, Prophets, and Adventurers: East Asia in the Age of Global Empire**

*May not be repeated for credit. Rackham credit requires additional work.*

**HISTORY 440 / AMCULT 440. American Thought and Culture Since 1940**

(3). *May not be repeated for credit. Rackham credit requires additional work.*

**HISTORY 442 / NEAREAST 417. The First Millennium of the Islamic Near East**

*Junior standing. (3). May not be repeated for credit. Taught in English.*

**HISTORY 443 / ISLAM 443 / NEAREAST 487. Modern Middle East History**

(4). *May not be repeated for credit.*

**HISTORY 445. Topics in History**

(3). *May be elected three times for credit.*

**HISTORY 446. Social and Intellectual History of Modern China**

(3). *May not be repeated for credit.*

**HISTORY 449. Topics in Middle Eastern History**

(3). *May not be repeated for credit.*

**HISTORY 450 / ASIAN 450. Japan to 1700: Origin Myth to Shogun Dynasty**

(3). *May not be repeated for credit. Rackham credit requires additional work.*

**HISTORY 451 / ASIAN 451. Japan's Modern Transformations**

(3). *May not be repeated for credit.*

**HISTORY 454 / AMCULT 353 / ASIANPAM 353. Asians in American Film and Television**

(4; 3 in the half-term). (ID). (R&E). *May not be repeated for credit.*

**HISTORY 457. The History of Colonial India**

(3). *May not be repeated for credit. Rackham credit requires additional work.*

**HISTORY 460. Colonial America**

(3). *May not be repeated for credit.*

**HISTORY 461 / AMCULT 462. The American Revolution**

(4; 3 in the half-term). *May not be repeated for credit. Rackham credit requires additional work.*

**HISTORY 463. Antebellum Society and the Civil War**

(3). *May not be repeated for credit. W.*

**HISTORY 466. Building American Empire: War, Politics, and Social Reform in the US, 1901-1950**

(4). *May not be repeated for credit. Rackham credit requires additional work.*

**HISTORY 468. Topics in U.S. History**

(3). *May be elected three times for credit.*

**HISTORY 469. Precolonial Southeast Asia**

(3). *May not be repeated for credit.*

**HISTORY 470 / ASIAN 464 / RELIGION 464. From Mystic Saints to Holy Warriors: Islam in Southeast Asia**

(3). *May not be repeated for credit. Rackham credit requires additional work.*

**HISTORY 472. Topics in Asian History**

(3). *May be elected three times for credit.*

**HISTORY 473 / AAS 473 / LACS 483. Brazil: History and Culture**

(3). *May not be repeated for credit. Rackham credit requires additional work.*

**HISTORY 474. From Colonial Saint-Domingue to Independent Haiti: History and Culture of an Exceptional Colonial and Post-Colonial Territory**

(3). *May not be repeated for credit.*

**HISTORY 476 / BA 476. American Business History**

*Junior, senior, or graduate standing. (3). May not be repeated for credit.*

**HISTORY 477. Law, History, and the Dynamics of Social Change**

(2 - 3). *May not be repeated for credit.*

**HISTORY 478. Topics in Latin American History**

(3). *May not be repeated for credit.*

**HISTORY 480. Conflict and Diplomacy in the Caucasus**

(3). *May not be repeated for credit. Rackham credit requires additional work.*

**HISTORY 481. Topics in European History**

(3). *May be elected three times for credit.*

**HISTORY 487. Conversions and Christianities in the Early Modern World and Beyond**

(3). *May not be repeated for credit.*

**HISTORY 489. Roman Catholicism and the Modern World**

(4; 3 in the half-term). *May not be repeated for credit.*

**HISTORY 490. The Left in Europe: Democracy and its Horizons, 1789-2014**

(3). *May not be repeated for credit. Rackham credit requires additional work.*

**HISTORY 495. The World the Mongols Made**

(3). *May not be repeated for credit. Rackham credit requires additional work.*

**HISTORY 496. History Colloquium**

*Consent of department required. HISTORY 202. (4; 3 in the half-term). May be repeated for a maximum of 8 credits.*

**HISTORY 497. History Colloquium**

*Consent of department required. HISTORY 202. (4; 3 in the half-term). May be repeated for a maximum of 8 credits.*

**HISTORY 498. Junior Honors Colloquium**

*Consent of instructor required. Honors students; junior standing, and permission of instructor. (4; 3 in the half-term). May not be repeated for credit.*

**HISTORY 499. Senior Honors Colloquium**

Consent of instructor required. Honors students, HISTORY 498, senior standing. (1 - 6). (INDEPENDENT). May be repeated for a maximum of 6 credits.

**HISTORY 537 / NEAREAST 419. The Near East in the Period of the Crusades, 945-1258**

Junior standing. (3). (R&E). May not be repeated for credit. Taught in English.

**HISTORY 657. Studies in the Society and Institutions of Russia to Peter the Great**

JR/SR P.I. (4; 3 in the half-term). May not be repeated for credit.

**Medieval and Early Modern Studies (MEMS)****MEMS 210 / HISTORY 210. Early Medieval Europe, 300-1000**

(4; 3 in the half-term). (SS). (R&E). May not be repeated for credit. F.

**MEMS 211 / HISTORY 211. Later Medieval Europe, 1000-1500**

(4). (SS). (R&E). May not be repeated for credit. W.

**MEMS 212 / HISTORY 212. Renaissance Europe**

(4). (HU). May not be repeated for credit.

**MEMS 240 / HISTART 240. The Visual Arts in Medieval Society**

(3). (HU). May not be repeated for credit.

**MEMS 250 / HISTART 250. Italian Renaissance Art**

(4). (HU). May not be repeated for credit.

**MEMS 253 / HISTORY 253. Europe, 300-1648: The Rise and Fall of the Middle Ages**

(4; 3 in the half-term). (SS). May not be repeated for credit.

**MEMS 260. Special Topics in Medieval and Early Modern Studies**

(3). May be elected twice for credit. May be elected more than once in the same term.

**MEMS 310 / RCHUMS 310. Pagans, Christians, Barbarians in Late Antiquity and the Early Middle Ages**

(3). (HU). May not be repeated for credit.

**MEMS 314 / RCHUMS 314. The Figure of Rome in Shakespeare and 16th-Century Painting**

(3). (HU). May not be repeated for credit.

**MEMS 316 / HISTORY 316 / WOMENSTD 316. Women and Gender in Medieval Europe: 500-1500**

One course in Women's Studies or History. (3). (SS). May not be repeated for credit.

**MEMS 317 / HISTORY 317 / WOMENSTD 317. Women and Gender in Early Modern Europe, 1500-1800**

At least one course in WOMENSTD or HISTORY. (3). (HU). May not be repeated for credit.

**MEMS 323 / FRENCH 343 / HISTORY 323. French Enlightenment**

(3). (HU). May not be repeated for credit.

**MEMS 324 / POLISH 324. Polish Literature from the Middle Ages to 1795: God's Playground**

(3). (HU). May not be repeated for credit. No credit granted to those who have completed or are enrolled in POLISH 524.

**MEMS 325 / ASIAN 324 / HISTORY 325 / ISLAM 325 / NEAREAST 375 / RELIGION 325. The History of Islam in South Asia**

(4). (HU). (R&E). May not be repeated for credit.

**MEMS 327 / ISLAM 327 / NEAREAST 327. Shahnameh: Iranian Myth, Epic, and History**

(3). (HU). May not be repeated for credit.

**MEMS 333 / ITALIAN 333. Dante's Divine Comedy**

A knowledge of Italian is not required. (3). (HU). May not be repeated for credit. Taught in English.

**MEMS 344 / HISTART 344. Early Medieval Kingdoms and Cultures: European Art 400-1000**

(3). (HU). May not be repeated for credit.

**MEMS 345 / HISTART 345. Introduction to Medieval Architecture**

(3). (HU). May not be repeated for credit.

**MEMS 348 / HISTART 348. The Medieval Book**

(3). (HU). May not be repeated for credit.

**MEMS 350 / ENGLISH 350. Literature in English to 1660**

(4; 3 in the half-term). May not be repeated for credit. F.

**MEMS 355 / HISTART 355. The Miraculous and the Diabolical in Late Medieval and Early Modern Europe**

(3). (HU). May not be repeated for credit.

**MEMS 360. Special Topics in Medieval and Early Modern Studies**

(3). May be elected twice for credit. May be elected more than once in the same term.

**MEMS 367 / ENGLISH 367. Shakespeare's Principal Plays**

(3 - 4; 3 in the half-term). (HU). May not be repeated for credit.

**MEMS 375 / GERMAN 375 / SCAND 375. Celtic and Nordic Mythology**

(3). (HU). May not be repeated for credit. Taught in English.

**MEMS 377 / FRENCH 367. Literature, History, and Culture of Early Modern France**

Two courses in FRENCH numbered FRENCH 250-299; or FRENCH 235

and two RCLANG 320; or FRENCH 235, one course in FRENCH numbered FRENCH 250-299 and one RCLANG 320. (Prerequisites enforced at registration.) (3). (HU). May be repeated for a maximum of 6 credits. May be elected more than once in the same term.

**MEMS 391 / RUSSIAN 391. Art, Culture, and Literature in Old Russia**  
(3). (HU). May not be repeated for credit. No credit granted to those who have completed or are enrolled in RUSSIAN 551.

**MEMS 398 / HISTORY 398. The Black Death**  
(3). (ID). May not be repeated for credit.

**MEMS 411. Special Topics**  
(1 - 3). May not be repeated for credit.

**MEMS 421 / RCHUMS 386. Medieval Drama**  
(4). May not be repeated for credit.

**MEMS 441 / LATIN 436. Postclassical Latin II**  
Two years of college Latin. (3; 2 in the half-term). May not be repeated for credit.

**MEMS 465 / ENGLISH 465. Chaucer: The Canterbury Tales**  
(3). May not be repeated for credit.

**MEMS 490. Directed Reading**  
Permission of instructor. (1 - 4). (INDEPENDENT). May be repeated for credit.

## Courses in LSA History of Art

### History of Art (HISTART)

**HISTART 100. Introduction to Art**  
(4). (HU). May not be repeated for credit.

**HISTART 102. Western Art from the End of the Middle Ages to the Present**  
(4). (HU). May not be repeated for credit. W.

**HISTART 194. First Year Seminar**  
Enrollment restricted to first-year students, including those with sophomore standing. (3). (HU). May not be repeated for credit. May not be used to meet the prerequisite requirement for the History of Art major.

**HISTART 201. Great Monuments from the Stone Age to the Middle Ages**  
(3). (HU). May not be repeated for credit.

**HISTART 205. Sacred Places**  
(3 - 4). (HU). May not be repeated for credit.

**HISTART 208 / AAS 208. Introduction to African Art**  
(4). (HU). (R&E). May not be repeated for credit.

**HISTART 210. History of Photography**  
(4). (HU). May not be repeated for credit.

**HISTART 211 / WOMENSTD 211. Gender and Popular Culture**  
(4). (HU). May not be repeated for credit.

**HISTART 212 / ARCH 212. Understanding Architecture**  
(3). May not be repeated for credit. Not open to students enrolled in Architecture. W.

**HISTART 213 / ARCH 213. Architecture in Modernity**  
(4). (HU). May not be repeated for credit.

**HISTART 220 / CLARCH 220. Great Buildings of Ancient Greece and Rome**  
(4; 3 in the half-term). (HU). May not be repeated for credit.

**HISTART 221 / CLARCH 221. Introduction to Greek Archaeology**  
(4; 3 in the half-term). (HU). May not be repeated for credit.

**HISTART 222 / CLARCH 222. Introduction to Roman Archaeology**  
(4; 3 in the half-term). (HU). May not be repeated for credit.

**HISTART 224 / AAS 224. African Visual Cultures: Akan/Kongo/Yoruba**  
(3). May not be repeated for credit.

**HISTART 230 / AMCULT 230. Art and Life in 19th-Century America**  
(3). (HU). May not be repeated for credit.

**HISTART 237 / AMCULT 237 / RCHUMS 237. On the Margins of the Art World - Self-Taught Artists in the U.S.**  
(3). (ID). May not be repeated for credit.

**HISTART 240 / MEMS 240. The Visual Arts in Medieval Society**  
(3). (HU). May not be repeated for credit.

**HISTART 243 / ASIAN 243. Introduction to South Asian Art**  
(3). (HU). May not be repeated for credit.

**HISTART 244 / AMCULT 244. Art of the American Century (1893-1968)**  
(3). (HU). May not be repeated for credit.

**HISTART 250 / MEMS 250. Italian Renaissance Art**  
(4). (HU). May not be repeated for credit.

**HISTART 253. The Mediterranean: Art History**  
(HU). May not be repeated for credit.

**HISTART 255. Visual Mythology**

(3). (HU). May not be repeated for credit.

**HISTART 260. European Painting and Sculpture of the Seventeenth Century**

(3). (HU). May not be repeated for credit.

**HISTART 271 / FRENCH 241. Origins of Modernism: Art and Culture in Nineteenth Century France**

(4). (HU). May not be repeated for credit. F.

**HISTART 272 / RCHUMS 272. Modern Art: Avant-Garde to Contemporary**

(4; 3 in the half-term). (HU). May not be repeated for credit.

**HISTART 285 / ISLAM 285 / NEAREAST 285. Visual Culture Islam**

(4). (HU). May not be repeated for credit.

**HISTART 292 / ASIAN 292. Introduction to Japanese Art and Culture**

(4). (HU). May not be repeated for credit. No credit granted to those who have completed or are enrolled in HISTART 495.

**HISTART 299. Experiential Study**

Consent of instructor required. (1 - 3). (EXPERIENTIAL). May be repeated for a maximum of 6 credits. This course is not intended for students who are pursuing research. Offered mandatory credit/no credit.

**HISTART 301 / ENVIRON 301. Nature, Culture and Landscape**

Junior/Senior/permission of instructor. (3). (HU). May not be repeated for credit. W.

**HISTART 302 / ANTHRCUL 302 / WOMENSTD 302. Sex and Gender in Japan**

(3). (SS). May not be repeated for credit.

**HISTART 304 / ASIAN 304. The Art of Yoga**

(3). (ID). May not be repeated for credit.

**HISTART 305 / ASIAN 335. Himalayas: An Aesthetic Exploration**

Undergraduate and graduate students seeking to enroll for this course should have completed at least one course on the arts/languages/religions of South/Central/East Asia. (3). (HU). May not be repeated for credit.

**HISTART 323 / HISTORY 350 / JUDAIC 323 / NEAREAST 383 / RELIGION 324. History of Jewish Visual Culture: From Ancient Mosaics to Jew-Hop Videos**

(3). (HU). May not be repeated for credit.

**HISTART 334 / WOMENSTD 334. Women in the Visual Arts: Images and Image-Makers**

One course in Women's Studies or History of Art. (3). (HU). May not be repeated for credit.

**HISTART 338. Representing Fashion: Costume and Dress in the Visual Arts**

(4). (HU). May not be repeated for credit.

**HISTART 341. The Gothic Age**

(3). (HU). May not be repeated for credit.

**HISTART 342 / RCHUMS 344. Reason and Passion in the 18th Century Europe**

Sophomore standing. (3). (HU). May not be repeated for credit.

**HISTART 343. God, Love, and War: The Art of Byzantium and Medieval Western Europe**

(3). (HU). May not be repeated for credit.

**HISTART 344 / MEMS 344. Early Medieval Kingdoms and Cultures: European Art 400-1000**

(3). (HU). May not be repeated for credit.

**HISTART 345 / MEMS 345. Introduction to Medieval Architecture**

(3). (HU). May not be repeated for credit.

**HISTART 346 / RELIGION 346. The Moving Image in the Middle Ages**

(3). (HU). May not be repeated for credit.

**HISTART 348 / MEMS 348. The Medieval Book**

(3). (HU). May not be repeated for credit.

**HISTART 351. The Art and Poetry of Michelangelo**

HISTART 102 or 251. (3). May not be repeated for credit.

**HISTART 352 / RCHUMS 346. Art and Philosophy in the Renaissance Tradition**

(3). (HU). May not be repeated for credit.

**HISTART 353. Meaning in the Making**

At least one previous lower level course in History of Art is preferable. (3). (HU). May not be repeated for credit.

**HISTART 355 / MEMS 355. The Miraculous and the Diabolical in Late Medieval and Early Modern Europe**

(3). (HU). May not be repeated for credit.

**HISTART 356. The Self in the Portrait**

Sophomores or above. (3). (HU). May not be repeated for credit.

**HISTART 357. Art and Money**

(3). (HU). May not be repeated for credit.

**HISTART 362 / AAS 362. Expressive Cultures of the Black Atlantic: Vision and Time**

HISTART 208/AAS 208 and upperclass standing. (3). May not be repeated for credit.

**HISTART 377. Perspectives in Recent Art**

*HISTART 102 or 272. (3). May not be repeated for credit.*

**HISTART 378. Sculptural Practices - Modern and Contemporary**

*HISTART 272 or at least one 100 or 200 level HISTART course. (3). May not be repeated for credit.*

**HISTART 380 / CLARCH 380. Minoan and Mycenaean Archaeology**

*Consent of instructor required. Upperclass standing, CLARCH/HISTART 221 and 222, and permission of instructor. (3). May not be repeated for credit.*

**HISTART 382 / ANTHRARC 381 / NEAREAST 338. Introduction to Egyptian Archaeology**

*(4; 3 in the half-term). (HU). May not be repeated for credit.*

**HISTART 385 / ASIAN 393. Human Rights in China from Classical Times through the 18th Century: a Historical and Cultural Survey**

*(3). (HU). May not be repeated for credit.*

**HISTART 388. Norm and Storm: Rebellion in Art**

*(3). (HU). May not be repeated for credit.*

**HISTART 389 / CLARCH 389 / CLCIV 379. Pompeii**

*(3 - 4). (HU). May not be repeated for credit.*

**HISTART 392. Anime to Zen: Japanese Art through Contemporary Popular Culture**

*(4). (HU). May not be repeated for credit.*

**HISTART 393. Undergraduate Seminar**

*Previous course work in the History of Art. (3). May be elected five times for credit. May be elected more than once in the same term. W.*

**HISTART 394. Special Topics**

*(3). May be repeated for a maximum of 12 credits. May be elected more than once in the same term. F, W, Sp, Su.*

**HISTART 395. Mini Seminar Course in History of Art**

*(1 - 2 in the half-term). (HU). May be elected five times for credit. May be elected more than once in the same term.*

**HISTART 396. Good Stories: Japanese Visual Narratives**

*(3). (HU). May not be repeated for credit.*

**HISTART 398. Mini Lecture Course in History of Art**

*(1 - 2 in the half-term). (HU). May be elected five times for credit.*

**HISTART 399. Independent Study**

*Consent of instructor required. (1 - 3). (INDEPENDENT). May be repeated for a maximum of 6 credits.*

**HISTART 406 / AAS 407. Looking at African Things**

*HISTART 208/AAS 208. (3). May not be repeated for credit. Rackham*

*credit requires additional work.*

**HISTART 408 / AAS 480. Visual Culture as History in Africa**

*AAS 200 (CAAS 200). (3). May not be repeated for credit.*

**HISTART 424 / CLARCH 424. Archaeology of the Roman Provinces**

*Upperclass standing, and CLARCH/HISTART 221 or 222. (3). May not be repeated for credit.*

**HISTART 430 / CLARCH 420. Greece before History: The Art and Archaeology of Greek Lands ca 3500 to 700 BCE**

*(3). May not be repeated for credit.*

**HISTART 431 / AMCULT 433. Made in Detroit: A History of Art and Culture in the Motor City**

*Upperclass standing; prior coursework in Art History, U.S. History, American Culture, or Urban studies, and permission of instructor. (3). May not be repeated for credit.*

**HISTART 433 / CLARCH 433. Greek Sculpture**

*Upperclass standing, some preparation in Classical Civilization, Classical Archaeology or History of Art. (3; 2 in the half-term). May not be repeated for credit. Rackham credit requires additional work.*

**HISTART 435 / CLARCH 435. The Art and Archaeology of Asia Minor**

*Upperclass standing. (3). May not be repeated for credit.*

**HISTART 439 / CLARCH 439. Greek Vase Painting**

*Upperclass standing. (3; 2 in the half-term). May not be repeated for credit.*

**HISTART 440 / CLARCH 440. Cities and Sanctuaries of Classical Greece**

*Upperclass standing, and a course in archaeology. (3; 2 in the half-term). May not be repeated for credit.*

**HISTART 443 / CLARCH 443. The Art and Archaeology of Greek Colonization**

*Upperclass standing and CLARCH/HISTART 221. (3). May not be repeated for credit.*

**HISTART 463. Art and Visual Culture in the Dutch Golden Age**

*(3). May not be repeated for credit.*

**HISTART 466 / ASIAN 465. Sacred Image/Sacred Place in Japanese Art**

*(3). May not be repeated for credit. Rackham credit requires additional work.*

**HISTART 468. Beautiful Writing: Explorations of East Asian Calligraphy**

*(3). May not be repeated for credit.*

**HISTART 489. Special Topics in Art and Culture**

*(1 - 3). May be elected three times for credit. May be elected more*

than once in the same term.

#### **HISTART 497. Upper-Level Seminar**

Previous coursework in the History of Art. (3). May be elected three times for credit. May be elected more than once in the same term.

#### **HISTART 498. Honors Colloquium**

Consent of instructor required. HISTART 393. (3). May not be repeated for credit.

#### **HISTART 499. Honors Thesis**

HISTART 498. (Prerequisites enforced at registration.) (3). May not be repeated for credit.

#### **HISTART 534 / CLARCH 534. Ancient Painting**

Upperclass standing, HISTART 101 and either HISTART/CLARCH 221 or 222. (3). May not be repeated for credit. Rackham credit requires additional work.

#### **HISTART 536 / CLARCH 536. Hellenistic and Roman Sculpture**

HISTART 101; one of CLARCH 221 or 222 or HISTART 221 or 222; and Upperclass standing. (3). May not be repeated for credit. Rackham credit requires additional work.

## **Museums (MUSEUMS)**

#### **MUSEUMS 301. Museums and Society**

Sophomore standing or above. (Prerequisites enforced at registration.) (3). (HU). May not be repeated for credit.

#### **MUSEUMS 401. Contemporary Issues in Museums**

MUSEUMS 301 or MSP 601. (Prerequisites enforced at registration.) (3). May not be repeated for credit. Rackham credit requires additional work.

#### **MUSEUMS 409. Practicum in Museums**

Declared academic minor in Museum Studies. (Prerequisites enforced at registration.) (3). (EXPERIENTIAL). May be repeated for a maximum of 6 credits. May be elected more than once in the same term. Offered mandatory credit/no credit.

#### **MUSEUMS 498. Special Topics in Museum Studies**

MUSEUMS 301 or MSP 601. (1 - 3). May be repeated for a maximum of 6 credits. May be elected more than once in the same term. Rackham credit requires additional work.

#### **MUSEUMS 499. Independent Study in Museum Studies**

Consent of department required. MUSEUMS 301 or MSP 601. (1 - 4). (INDEPENDENT). May be repeated for a maximum of 4 credits. May be elected more than once in the same term. Offered mandatory credit/no credit.

## **Courses in LSA Honors**

## **Honors Program (HONORS)**

#### **HONORS 135. Ideas in Honors**

First-year standing in the Honors Program. (1). May be elected twice for credit. May be elected more than once in the same term. Offered mandatory credit/no credit.

#### **HONORS 230. Honors Core in Social Science**

Consent of department required. (4). (SS). May be elected twice for credit. May be elected more than once in the same term.

#### **HONORS 231. Honors Core in Humanities**

Consent of department required. (4). (HU). May be elected twice for credit. May be elected more than once in the same term.

#### **HONORS 232. Honors Core in Natural Science**

Consent of department required. (4). (NS). (BS). May be elected twice for credit. May be elected more than once in the same term.

#### **HONORS 240. Honors Core Writing in Social Science**

Consent of department required. (4). (SS). (FYWR). May be elected twice for credit. May be elected more than once in the same term.

#### **HONORS 241. Honors Core Writing in Humanities**

Consent of department required. (4). (HU). (FYWR). May be elected twice for credit. May be elected more than once in the same term.

#### **HONORS 242. Honors Core Writing in Natural Science**

Consent of department required. (4). (NS). (FYWR). (BS). May be elected twice for credit.

#### **HONORS 250. Honors Social Sciences Seminar**

Open to all Honors students. (3). (SS). May be elected twice for credit.

#### **HONORS 251. Honors Humanities Seminar**

Open to Honors students. May be repeated for credit with permission of department. (3). (HU). May be elected twice for credit. May be elected more than once in the same term.

#### **HONORS 252. Honors Natural Sciences Seminar**

Open to Honors students. (3). (NS). (BS). May be elected twice for credit.

#### **HONORS 254 / GERMAN 243. Faust**

(3; 2 in the half-term). (HU). May not be repeated for credit.

#### **HONORS 290. Honors Introduction to Research**

Consent of instructor required. Junior or Senior honors program. (1 - 4). (INDEPENDENT). May be repeated for a maximum of 8 credits. F, W, Sp, SS, Su.

#### **HONORS 291. Honors Introduction to Scientific Research**

Consent of instructor required. Open to Honors students. Permission of instructor. (1 - 4). (INDEPENDENT). May be repeated for a maximum of



8 credits. F, W, Sp, SS, Su.

**HONORS 292. Honors Introduction to Scientific Research**

Consent of instructor required. Permission of the Honors Program. (1 - 4). (INDEPENDENT). May be repeated for a maximum of 8 credits.

**HONORS 309 / GERMAN 309 / JAZZ 309 / RCHUMS 307. Imagination**

(3). (HU). May not be repeated for credit.

**HONORS 354 / AAS 354 / RCHUMS 354 / WOMENSTD 354. Race and Identity in Music**

(3). (HU). (R&E). May not be repeated for credit.

**HONORS 365 / PHYSICS 365 / SI 365. Cyberscience: Computational Science and the Rise of the Fourth Paradigm**

Computing language course (e.g., EECS 183, 280, ENGR 101), Introductory statistics (e.g., Stats 250). (3). (NS). (BS). (QR/2). May not be repeated for credit.

**HONORS 390. Junior Honors Research**

Consent of instructor required. Permission of the Honors Director. (1 - 4). (INDEPENDENT). May be repeated for a maximum of 8 credits. Continuing Course. Y grade can be reported at end of the first-term to indicate work in progress. At the end of the second term of HONORS 490, the final grade is posted for both term's elections. F, W, Sp/Su, Sp, Su.

**HONORS 490. Senior Honors Research**

Consent of instructor required. Open to upperclass Honors concentrators. Permission of instructor. (1 - 4). (INDEPENDENT). May be repeated for a maximum of 8 credits. Continuing Course. Y grade can be reported at end of the first-term to indicate work in progress. At the end of the second term, the final grade is posted for both term's elections. F, W, Sp/Su, Sp, Su.

**HONORS 493. College Honors Seminar**

Consent of instructor required. Permission of instructor or of the Honors Director. (1 - 4). May be repeated for a maximum of 8 credits. W.

## Courses in LSA Humanities Institute

### Institute for the Humanities (INSTHUM)

**INSTHUM 211. Second-Year Seminar in Interdisciplinary Studies**

(1 - 3). (HU). May not be repeated for credit.

**INSTHUM 311. Topics in Interdisciplinary Studies**

Consent of instructor required. Permission of instructor. (1 - 4). (HU). May not be repeated for credit.

**INSTHUM 411. Topics in Interdisciplinary Studies**

Advanced undergraduate standing. (1 - 4). May be repeated for credit.

## Courses in LSA II: International and Comparative Studies

### International Studies (INTLSTD)

**INTLSTD 101 / GEOG 145. Introduction to International Studies**

(3). (SS). May not be repeated for credit.

**INTLSTD 170. International Studies Special Topics**

May be elected twice for credit. Offered mandatory credit/no credit.

**INTLSTD 205 / HISTORY 101. What is History?**

(4; 3 in the half-term). (HU). (R&E). May not be repeated for credit.

**INTLSTD 270. International Studies Special Topics**

Students with a declared major/minor in International Studies. (Prerequisites enforced at registration.) (1 - 4). May be elected twice for credit.

**INTLSTD 301. Topics in International Studies**

International Studies Majors only. (Prerequisites enforced at registration.) International Studies Minors may be granted permission to enroll by request. (3 - 4). May not be repeated for credit.

**INTLSTD 370. International Studies: Special Topics**

Consent of department required. (1 - 4). May be elected twice for credit. May be elected more than once in the same term.

**INTLSTD 384. International and/or Comparative Topics in the Humanities**

INTLSTD 101. (1 - 4). (HU). May be repeated for a maximum of 10 credits. May be elected more than once in the same term.

**INTLSTD 385. International and/or Comparative Topics in the Social Sciences**

INTLSTD 101. (1 - 4). (SS). May be repeated for a maximum of 10 credits. May be elected more than once in the same term.

**INTLSTD 386. Topics in International Security, Norms and Cooperation**

CICS 101 or INTLSTD 101. (Prerequisites enforced at registration.) CICS 301 or INTLSTD 301. (3 - 4). May be elected twice for credit. May be elected more than once in the same term.

**INTLSTD 387. Topics in Global Environment and Health**

CICS 101 or INTLSTD 101. (Prerequisites enforced at registration.) CICS 301 or INTLSTD 301. (3 - 4). May be elected twice for credit. May be elected more than once in the same term.

**INTLSTD 388. Topics in Political Economy and Development**

CICS 101 or INTLSTD 101. (Prerequisites enforced at registration.) CICS

301 or INTLSTD 301. (3 - 4). May be elected twice for credit. May be elected more than once in the same term.

**INTLSTD 389. Topics in Comparative Culture and Identity**

CICS 101 or INTLSTD 101. (Prerequisites enforced at registration.) CICS 301 or INTLSTD 301. (3 - 4). May be elected twice for credit. May be elected more than once in the same term.

**INTLSTD 391. Directed Studies**

Consent of department required. (1 - 4). (INDEPENDENT). May be elected three times for credit.

**INTLSTD 401. International Studies Advanced Seminar**

Junior standing or above. (Prerequisites enforced at registration.) (3 - 4). May be elected twice for credit.

**INTLSTD 470. International Studies: Special Topics**

Consent of department required. (1 - 4). May be elected twice for credit. May be elected more than once in the same term.

**INTLSTD 486. Advanced Topics in International Security, Norms and Cooperation**

CICS 101 or INTLSTD 101. (Prerequisites enforced at registration.) CICS 301 or INTLSTD 301. (3 - 4). May be elected twice for credit.

**INTLSTD 487. Advanced Topics in Global Environment and Health**

CICS 101 or INTLSTD 101. (Prerequisites enforced at registration.) CICS 301 or INTLSTD 301. (3 - 4). May be elected twice for credit.

**INTLSTD 488. Advanced Topics in Political Economy and Development**

CICS 101 or INTLSTD 101. (Prerequisites enforced at registration.) CICS 301 or INTLSTD 301. (3 - 4). May be elected twice for credit.

**INTLSTD 489. Advanced topics in Comparative Culture and Identity**

CICS 101 or INTLSTD 101. (Prerequisites enforced at registration.) CICS 301 or INTLSTD 301. (3 - 4). May be elected twice for credit.

**INTLSTD 491. Directed Studies**

INTLSTD 101 and Permission of Instructor and the Director. (Prerequisites enforced at registration.) CICS 301 or INTLSTD 301. (2 - 4). (INDEPENDENT). May be elected twice for credit.

**INTLSTD 498. Senior Honors Proseminar**

International Studies Senior Honors Majors only. (Prerequisites enforced at registration.) (3). May not be repeated for credit.

**INTLSTD 499. Senior Honors Proseminar**

International Studies Senior Honors majors who have completed CICS 498 or INTLSTD 498. (Prerequisites enforced at registration.) (3). May not be repeated for credit.

## Courses in LSA II: Islamic Studies

## Program

### Islamic Studies (ISLAM)

**ISLAM 216 / NEAREAST 216 / RELIGION 204. Introduction to Islam** (4; 3 in the half-term). (HU). May not be repeated for credit.

**ISLAM 219 / GTBOOKS 246 / NEAREAST 219. Great Books of the Middle East** (3). (HU). May not be repeated for credit.

**ISLAM 241 / HISTORY 241. America and Middle Eastern Wars** (4). (SS). May not be repeated for credit.

**ISLAM 243 / HISTORY 243 / MENAS 243. The Dawn of Islamic History** (4; 3 in the half-term). (HU). May not be repeated for credit.

**ISLAM 245 / AAS 245 / HISTORY 245. Islam in Africa** Students will receive no credit if previously taken as HISTORY 357, Topic 3 "Islam in Africa". (Prerequisites enforced at registration.) (3 - 4; 3 in the half-term). (HU). May not be repeated for credit.

**ISLAM 246 / ANTHRCUL 246 / RELIGION 246. Anthropology of Religion** (4). May not be repeated for credit.

**ISLAM 285 / HISTART 285 / NEAREAST 285. Visual Culture Islam** (4). (HU). May not be repeated for credit.

**ISLAM 290. Topics in Islamic Studies** (1 - 4). May be elected three times for credit. May be elected more than once in the same term.

**ISLAM 291. Social Science Topics in Islamic Studies** (1 - 4). (SS). May be elected three times for credit. May be elected more than once in the same term.

**ISLAM 292. Humanities Topics in Islamic Studies** (1 - 4). (HU). May be elected three times for credit. May be elected more than once in the same term.

**ISLAM 315 / NEAREAST 315. Introduction to Arab Culture** (4). (HU). (R&E). May not be repeated for credit.

**ISLAM 317 / NEAREAST 317. Turkey in the 20th century: Modernity and the Politics of Culture** (3). (ID). May not be repeated for credit.

**ISLAM 319 / HISTORY 306 / NEAREAST 319. History of the Ottoman Empire: The "Classical Age", (ca. 1300-1600)** Not available to students who have completed AAPTIS 291 (#16) or HISTORY 303 (# 10) when taught with the topic "Ten Sultans, One Empire: The Ottoman Classical Age". (Prerequisites enforced at registration.) (3). (HU). May not be repeated for credit.

**ISLAM 320 / HISTORY 307 / NEAREAST 320. History of the Ottoman Empire: The "Post-Classical Age", (ca. 1600-1922)**

Not available to students who have completed AAPTIS 291 (#17) or HISTORY 303 (# 13) when taught with the topic "The Ottoman Empire in the 'Post Classical Age'". (Prerequisites enforced at registration.)  
(3). (HU). May not be repeated for credit.

**ISLAM 323 / NEAREAST 323. The Prophet Muhammad in Islam**

(3). (HU). May not be repeated for credit.

**ISLAM 325 / ASIAN 324 / HISTORY 325 / MEMS 325 / NEAREAST 375 / RELIGION 325. The History of Islam in South Asia**

(4). (HU). (R&E). May not be repeated for credit.

**ISLAM 327 / MEMS 327 / NEAREAST 327. Shahnameh: Iranian Myth, Epic, and History**

(3). (HU). May not be repeated for credit.

**ISLAM 330 / NEAREAST 330 / RCHUMS 330 / RELIGION 330. The Arabian Nights**

(3). (HU). May not be repeated for credit.

**ISLAM 335 / AAS 355 / ANTHRCUL 355 / HISTORY 355. Health and Illness in African Worlds**

(R&E). May not be repeated for credit.

**ISLAM 390. Topics in Islamic Studies**

(1 - 4). May be elected three times for credit. May be elected more than once in the same term.

**ISLAM 391. Social Science Topics in Islamic Studies**

(1 - 4). (SS). May be elected three times for credit. May be elected more than once in the same term.

**ISLAM 392. Humanities Topics in Islamic Studies**

(1 - 4). (HU). May be elected three times for credit. May be elected more than once in the same term.

**ISLAM 394 / HISTORY 394 / NEAREAST 376. History of the Turkish Republic**

(3). (HU). May not be repeated for credit.

**ISLAM 423 / NEAREAST 423. Islamic Law**

NEAREAST 216. (3). May not be repeated for credit.

**ISLAM 424 / NEAREAST 424 / RELIGION 461. Islamic Intellectual History**

Taught in English. (3). May not be repeated for credit.

**ISLAM 430 / NEAREAST 430. History of Arabic Literature in English**

(3). May not be repeated for credit.

**ISLAM 433 / NEAREAST 433 / WOMENSTD 496. Gender and Representation in the Modern Middle East**

(3). May not be repeated for credit.

**ISLAM 443 / HISTORY 443 / NEAREAST 487. Modern Middle East History**

(4). May not be repeated for credit.

**ISLAM 490. Advanced Topics in Islam**

(1 - 4). May be elected three times for credit. May be elected more than once in the same term.

## Courses in LSA II: Japanese Studies

### Japanese Studies (CJS)

**CJS 281. Study Abroad in Japan**

Consent of instructor required. (1 - 3). (EXPERIENTIAL). May be elected twice for credit.

**CJS 450. Minicourse in Japanese Studies**

Upperclass standing. (1 - 2). May be repeated for a maximum of 4 credits. May be elected more than once in the same term. Taught in English. Rackham credit requires additional work.

**CJS 451. Topics in Japanese Studies**

Junior/Senior or Graduate students. (3). May be repeated for a maximum of 9 credits. May be elected more than once in the same term. Rackham credit requires additional work.

## Courses in LSA II: Korean Studies

### Korean Studies (KRSTD)

**KRSTD 290. Topics in Korean Studies**

(1 - 4). May be elected three times for credit. May be elected more than once in the same term.

**KRSTD 390. Special Topics in Korean Studies**

(1 - 4). May be elected three times for credit. May be elected more than once in the same term.

**KRSTD 391. Social Science Topics in Korean Studies**

(1 - 4). (SS). May be elected three times for credit. May be elected more than once in the same term.

**KRSTD 392. Humanities Topics in Korean Studies**

(1 - 4). (HU). May be elected three times for credit. May be elected more than once in the same term.

**KRSTD 471. Nam Center Undergraduate Fellows Research Seminar, I**

Consent of department required. (2). May be elected twice for credit. Offered mandatory credit/no credit.

**KRSTD 490. Advanced Topics in Korean Studies**

(1 - 4). May be elected three times for credit. May be elected more than once in the same term.

## Courses in LSA II: Latin American and Caribbean Studies

### Latin American and Caribbean Studies (LACS)

**LACS 226 / AAS 236 / AMCULT 226 / HISTORY 226 / LATINOAM 226.**

**The Latin Tinge: Latin Music in Social Context in Latin America and the U.S.**

(4; 3 in the half-term). (HU). (R&E). May not be repeated for credit.

**LACS 300 / HS 300. Spanish for Healthcare Professionals**

May not be repeated for credit.

**LACS 321. Social Science Topics in LACS**

(3 - 4). (SS). May be elected twice for credit.

**LACS 349 / HISTORY 349. Revolutionary Movements in Modern Latin America**

(4; 3 in the half-term). (ID). May not be repeated for credit.

**LACS 355. Topics in Latin American and Caribbean Studies**

(3). May be elected twice for credit. May be elected more than once in the same term.

**LACS 399. Thesis-Writers' Seminar**

Consent of instructor required. (3). May not be repeated for credit. Continuing Course. Y grade can be reported at end of the first-term to indicate work in progress. At the end of the second term, the final grade is posted for both term's elections.

**LACS 421 / AAS 421 / HISTORY 421 / RELIGION 421. Religions of the African Diaspora**

(3). May not be repeated for credit. Rackham credit requires additional work.

**LACS 425. Field Study**

Consent of instructor required. (1 - 4). (EXPERIENTIAL). (INDEPENDENT). May be repeated for a maximum of 8 credits. Offered mandatory credit/no credit.

**LACS 446 / LING 446. Comparative Linguistics**

At least one course in Linguistics/language analysis. (3). May not be repeated for credit. Rackham credit requires additional work.

**LACS 455. Topics in Latin American Studies**

Consent of instructor required. (3). May be repeated for a maximum of 6 credits.

**LACS 461. Elementary Nahuatl I**

(4). May not be repeated for credit.

**LACS 462. Elementary Nahuatl II**

LACS 461. (Prerequisites enforced at registration.) (4). May not be

repeated for credit.

**LACS 463. Intermediate Nahuatl I**

LACS 462. (Prerequisites enforced at registration.) (4). May not be repeated for credit.

**LACS 464. Intermediate Nahuatl II**

LACS 463. (Prerequisites enforced at registration.) (4). (Lang Req). May not be repeated for credit.

**LACS 465. Advanced Nahuatl I**

LACS 464. (Prerequisites enforced at registration.) (4). May not be repeated for credit.

**LACS 466. Advanced Nahuatl II**

LACS 465. (Prerequisites enforced at registration.) (4). May not be repeated for credit.

**LACS 471. Elementary Quechua, I**

Permission of instructor. (4). May not be repeated for credit.

**LACS 472. Elementary Quechua, II**

LACS 471. (Prerequisites enforced at registration.) (4). May not be repeated for credit.

**LACS 473. Intermediate Quechua, I**

LACS 472. (Prerequisites enforced at registration.) Permission of instructor. (4). May not be repeated for credit.

**LACS 474. Intermediate Quechua, II**

LACS 473. (Prerequisites enforced at registration.) (4). (Lang Req). May not be repeated for credit.

**LACS 475. Advanced Quechua, I**

LACS 474. (Prerequisites enforced at registration.) Permission of instructor. (4). May not be repeated for credit.

**LACS 476. Advanced Quechua, II**

LACS 475. (Prerequisites enforced at registration.) (4). May not be repeated for credit.

**LACS 483 / AAS 473 / HISTORY 473. Brazil: History and Culture**

(3). May not be repeated for credit. Rackham credit requires additional work.

**LACS 490. Topics in Latin American and Caribbean Studies Mini-course**

Permission of Instructor. (1 - 2). May be repeated for a maximum of 4 credits. May be elected more than once in the same term.

**LACS 499. Reading and Research in Latin American and Caribbean Studies**

Consent of instructor required. (1 - 3). (INDEPENDENT). May be repeated for a maximum of 6 credits.

## Courses in LSA II: Middle Eastern and North African Studies

### Middle Eastern and North African Studies (MENAS)

**MENAS 231. Social Science Topics in MENAS**  
(1 - 4). (SS). May be elected three times for credit.

**MENAS 243 / HISTORY 243 / ISLAM 243. The Dawn of Islamic History**  
(4; 3 in the half-term). (HU). May not be repeated for credit.

**MENAS 244 / HISTORY 244 / JUDAIC 244 / NEAREAST 284. The History of the Arab-Israeli Conflict**  
(4; 3 in the half-term). (SS). (R&E). May not be repeated for credit.

**MENAS 334 / NEAREAST 379. Internships in Turkey: Pre-Departure Orientation**  
(1 - 3). May not be repeated for credit.

**MENAS 340 / ASIAN 340 / HISTORY 340 / NEAREAST 340 / REEES 340. From Genghis Khan to the Taliban: Modern Central Asia**  
(4; 3 - 4 in the half-term). (SS). (R&E). May not be repeated for credit.

**MENAS 398. MENAS Internship**  
Consent of instructor required. ARABIC 101 or higher for Arabic or TURKISH 101 or higher for Turkish. (1 - 3). (EXPERIENTIAL). May not be repeated for credit.

**MENAS 461 / EDUC 461. Web Based Mentorship: Earth Odysseys**  
(3). May be repeated for a maximum of 6 credits.

**MENAS 462 / EDUC 462. Web Based Mentorship: Place Out of Time**  
Consent of instructor required. (3). (EXPERIENTIAL). May be repeated for credit. May be elected more than once in the same term.

**MENAS 463 / EDUC 463. Web Based Mentorship: Arab-Israeli Conflict Simulation**  
(3). May be repeated for a maximum of 6 credits.

**MENAS 493 / NEAREAST 483. Comparative Perspectives of the Middle East and North Africa**  
(1). May be repeated for a maximum of 12 credits. May be elected more than once in the same term. Rackham credit requires additional work.

**MENAS 495. Senior Honors Thesis**  
Consent of instructor required. Open only to Honors concentrators with senior standing. (3 - 4). (INDEPENDENT). May not be repeated for credit. Continuing Course. Y grade can be reported at end of the first-term to indicate work in progress. At the end of the second term of MENAS 496, the final grade is posted for both term's elections.

**MENAS 496. Senior Honors Thesis**

Consent of instructor required. MENAS 495; Open only to Honors concentrators with senior standing. (3 - 4). (INDEPENDENT). May not be repeated for credit.

**MENAS 591. Interdisciplinary Middle East Topics Seminar**  
Upperclass standing; concentration in MENAS, NES or other fields with main interest in Middle Eastern Studies. (3). May be repeated for a maximum of 9 credits. May be elected more than once in the same term.

## Courses in LSA II: Russian, East European, and Eurasian Studies

### Russian, East European, and Eurasian Studies (REEES)

**REEES 214 / POLISH 214. Rock Poetry and Political Protest in Poland**  
(3). (HU). May not be repeated for credit.

**REEES 301. Directed Reading**  
Consent of instructor required. (1 - 3). (INDEPENDENT). May be repeated for a maximum of 6 credits.

**REEES 340 / ASIAN 340 / HISTORY 340 / MENAS 340 / NEAREAST 340. From Genghis Khan to the Taliban: Modern Central Asia**  
(4; 3 - 4 in the half-term). (SS). (R&E). May not be repeated for credit.

**REEES 350 / BCS 350 / JUDAIC 350. Legacy of the Holocaust in Yugoslav Culture: How and Why We Need to Narrate the Holocaust**  
(3). (HU). (R&E). May not be repeated for credit.

**REEES 395 / HISTORY 332 / POLSCI 395 / SLAVIC 395 / SOC 392. Russia and the Soviet Union: Reform, Revolution, and the Socialist Experiment**  
(4; 3 in the half-term). (SS). May not be repeated for credit.

**REEES 396 / POLSCI 396 / SLAVIC 396 / SOC 393. East Central Europe: Nationalism, Socialism, Democracy**  
(3 - 4). (SS). May not be repeated for credit.

**REEES 397 / ANTHRCUL 317 / HISTORY 228 / POLSCI 334 / SLAVIC 397 / SOC 317. Communism and Capitalism in Eastern Europe**  
(4). (SS). May not be repeated for credit. No credit granted to those who have completed or are enrolled in REEES 396 or SLAVIC 396 or POLSCI 396 or HISTORY 333 or SOC 393.

**REEES 401. Senior Seminar in Russian, East European, and Eurasian Studies**  
Permission of instructor. (3). May be repeated for a maximum of 6 credits.

**REEES 402. Honors Workshop, Junior**  
Consent of instructor required. Honors student and junior standing.

(2). May not be repeated for credit.

**REEES 403. Honors Colloquium, Senior**

Consent of instructor required. REEES 402 or a thesis prospectus accepted (prior to start of fall term of senior year) by REEES Honors advisor and an individual thesis advisor. (1 - 6). May be repeated for a maximum of 6 credits.

**REEES 405. Topics in Russian, East European, and Eurasian Studies**

(1 - 4). May be repeated for a maximum of 8 credits. May be elected more than once in the same term.

**REEES 410. Polish Culture**

(1). May be repeated for a maximum of 2 credits. May be elected more than once in the same term.

## Courses in LSA II: SE Asian Studies

### Southeast Asian Studies (SEAS)

**SEAS 215 / UC 215. Contemporary Social Issues in Southeast Asia**

(3). (SS). May not be repeated for credit. W.

**SEAS 354 / POLSCI 354. Governments and Politics of Southeast Asia**

One course in Political Science or upperclass standing. (3). (SS). May not be repeated for credit.

**SEAS 450. Minicourse in Southeast Asian Studies**

Junior, Senior, or graduate students. (1 - 2). May be repeated for a maximum of 6 credits. May be elected more than once in the same term. Rackham credit requires additional work.

**SEAS 455. Topics in Southeast Asian Studies**

Junior, Senior, graduate students. (3). May be repeated for a maximum of 12 credits. May be elected more than once in the same term. Rackham credit requires additional work.

## Courses in LSA Judaic Studies

### Judaic Studies (JUDAIC)

**JUDAIC 101 / GERMAN 127 / YIDDISH 101. Elementary Yiddish I**

(4). May not be repeated for credit. No credit granted to those who have completed or are enrolled in JUDAIC 431 or YIDDISH 431. Graduate students elect JUDAIC 431 or YIDDISH 431. F.

**JUDAIC 102 / GERMAN 128 / YIDDISH 102. Elementary Yiddish II**

JUDAIC/YIDDISH 101. (4). May not be repeated for credit. No credit granted to those who have completed or are enrolled in JUDAIC 432 or YIDDISH 432. Graduate students elect JUDAIC 432 or YIDDISH 432. W.

**JUDAIC 120 / NESLANG 101 / RELIGION 110. Elementary Classical Hebrew I**

(3). May not be repeated for credit.

**JUDAIC 121 / NESLANG 102 / RELIGION 111. Elementary Classical Hebrew II**

NESLANG 101 (ACABS 101). (3). May not be repeated for credit.

**JUDAIC 150. First Year Seminar in Judaic Studies**

Enrollment restricted to first-year students, including those with sophomore standing. (3). (HU). May be repeated for a maximum of 6 credits. May be elected more than once in the same term.

**JUDAIC 201 / GERMAN 227 / YIDDISH 201. Intermediate Yiddish I**

JUDAIC/YIDDISH 102. (4). May not be repeated for credit. No credit granted to those who have completed or are enrolled in JUDAIC 531 or YIDDISH 531. Graduate students elect JUDAIC 531 or YIDDISH 531. F.

**JUDAIC 202 / GERMAN 228 / YIDDISH 202. Intermediate Yiddish II**

JUDAIC/YIDDISH 201. (4). (Lang Req). May not be repeated for credit. No credit granted to those who have completed or are enrolled in JUDAIC 532 or YIDDISH 532. Graduate students elect JUDAIC 532 or YIDDISH 532. W.

**JUDAIC 205 / NEAREAST 276. What is Judaism?**

(4). (HU). May not be repeated for credit. No credit granted to those who have completed or are enrolled in JUDAIC 505 or HJCS 576.

**JUDAIC 210 / HISTORY 258. Sources of Jewish History**

(3). (HU). May not be repeated for credit.

**JUDAIC 216. Social Sciences Topics in Judaism**

(1 - 4). (SS). May be repeated for a maximum of 9 credits. May be elected more than once in the same term.

**JUDAIC 217. Topics in the Hebrew Bible**

(3). (HU). May be elected twice for credit.

**JUDAIC 218. Humanities Topics in Judaism**

(1 - 4). (HU). May be elected eight times for credit. May be elected more than once in the same term.

**JUDAIC 220 / NESLANG 201 / RELIGION 210. Intermediate Classical Hebrew I**

NESLANG 102 (ACABS 102). (3). May not be repeated for credit.

**JUDAIC 221 / NESLANG 202 / RELIGION 211. Intermediate Classical Hebrew II**

NESLANG 201 (ACABS 201). (3). (Lang Req). May not be repeated for credit.

**JUDAIC 223. The Problem with the Bible**

(3). (HU). May not be repeated for credit.

**JUDAIC 235 / NEAREAST 235 / RELIGION 235. Introduction to the Tanakh/Old Testament**

(3). (HU). May not be repeated for credit.

**JUDAIC 244 / HISTORY 244 / MENAS 244 / NEAREAST 284. The History of the Arab-Israeli Conflict**  
(4; 3 in the half-term). (SS). (R&E). May not be repeated for credit.

**JUDAIC 245 / AMCULT 245. Jews and Other Others**  
Not available to students who have completed AMCULT 211 or JUDAIC 218 when taught with the topic "Jews and Other Others" (Topic #1). (Prerequisites enforced at registration.) (3 - 4). (HU). May not be repeated for credit.

**JUDAIC 250 / NEAREAST 280 / SAC 250. Jewish Film: Race, Ethnicity, and Nationality**  
(4). (HU). (R&E). May not be repeated for credit.

**JUDAIC 253. The Mediterranean: Jewish Studies**  
(HU). May not be repeated for credit.

**JUDAIC 255 / NEAREAST 279. Tel Aviv and Jerusalem in Israeli Culture**  
(3). (HU). May not be repeated for credit.

**JUDAIC 256 / NEAREAST 256. Israeli Literature and Culture**  
(3). (HU). May not be repeated for credit.

**JUDAIC 257 / CLCIV 257 / HISTORY 257. Ancient Law**  
(4; 3 in the half-term). (HU). May not be repeated for credit.

**JUDAIC 258 / ENGLISH 258 / RELIGION 258. The Bible as Literature**  
(3). (HU). May not be repeated for credit.

**JUDAIC 259. The Book of Genesis**  
(3). (HU). May not be repeated for credit.

**JUDAIC 260 / HISTORY 269 / RELIGION 260. Introduction to the Talmud and the Rabbis**  
(3). (HU). May not be repeated for credit.

**JUDAIC 271 / SLAVIC 270. Contact and Conflict: Jewish Experience in Eastern Europe through Art, Film and Literature**  
(3). (R&E). May not be repeated for credit.

**JUDAIC 277 / NEAREAST 207 / RELIGION 277. The Land of Israel/Palestine through the Ages**  
(4; 3 in the half-term). (HU). (R&E). May not be repeated for credit. Taught in English.

**JUDAIC 280 / NEAREAST 238 / RELIGION 280. The Historical Jesus in Christianity, Judaism, and Islam**  
(4; 3 in the half-term). (HU). May not be repeated for credit.

**JUDAIC 281 / NEAREAST 281 / SLAVIC 281. Jews in the Modern World: Texts, Images, Ideas**

(4). (HU). (R&E). May not be repeated for credit.

**JUDAIC 290 / HISTORY 290 / NEAREAST 287. Jews and Muslims**  
(3). (HU). May not be repeated for credit.

**JUDAIC 296 / NEAREAST 255 / RELIGION 296. Perspectives on the Holocaust**  
(4; 3 in the half-term). (HU). (R&E). May not be repeated for credit.

**JUDAIC 301 / GERMAN 327 / YIDDISH 301. Advanced Yiddish I**  
JUDAIC 102 or YIDDISH 202. (3). May not be repeated for credit. No credit granted to those who have completed or are enrolled in JUDAIC 631 or YIDDISH 631. Graduate students elect JUDAIC 631 or YIDDISH 631. F.

**JUDAIC 302 / GERMAN 328 / YIDDISH 302. Advanced Yiddish II**  
JUDAIC/YIDDISH 301. (3). May not be repeated for credit. No credit granted to those who have completed or are enrolled in JUDAIC 632 or YIDDISH 632. Graduate students elect JUDAIC 632 or YIDDISH 632. W.

**JUDAIC 316. Themes in Jewish Literature**  
(1 - 4). May be repeated for a maximum of 8 credits. May be elected more than once in the same term.

**JUDAIC 317. Topics in Judaic Studies**  
(1 - 4). May be repeated for a maximum of 8 credits. May be elected more than once in the same term.

**JUDAIC 318. Humanities Topics in Judaism**  
(1 - 4). (HU). May be repeated for a maximum of 8 credits. May be elected more than once in the same term.

**JUDAIC 319. Judaic Studies Abroad**  
Consent of department required. (1 - 3). (EXPERIENTIAL). May be repeated for a maximum of 16 credits.

**JUDAIC 320 / AMCULT 320 / NEAREAST 380. The Jewish Graphic Novel**  
(3). (HU). May not be repeated for credit.

**JUDAIC 323 / HISTART 323 / HISTORY 350 / NEAREAST 383 / RELIGION 324. History of Jewish Visual Culture: From Ancient Mosaics to Jew-Hop Videos**  
(3). (HU). May not be repeated for credit.

**JUDAIC 332 / YIDDISH 332. The Yiddish Classics and Modernity**  
(3). (HU). May not be repeated for credit.

**JUDAIC 335 / NEAREAST 335 / RELIGION 359. History and Religion of Second Temple Judaism**  
(3). (HU). May not be repeated for credit.

**JUDAIC 339 / HISTORY 259 / NEAREAST 339 / RELIGION 358. Israel Before the Exile (587 BCE): Its History & Religion**

(4; 3 in the half-term). (HU). May not be repeated for credit.

**JUDAIC 350 / BCS 350 / REEES 350. Legacy of the Holocaust in Yugoslav Culture: How and Why We Need to Narrate the Holocaust**  
(3). (HU). (R&E). May not be repeated for credit.

**JUDAIC 351 / DUTCH 351. Anne Frank in Context**  
(3). (HU). (R&E). May not be repeated for credit.

**JUDAIC 360 / NEAREAST 386. A Global History of the Jews of Spain**  
JUDAIC 205. (3). (HU). May not be repeated for credit.

**JUDAIC 376 / WOMENSTD 376. Women and the Bible**  
(3). (HU). May not be repeated for credit.

**JUDAIC 380 / CLCIV 380 / HISTORY 381 / RELIGION 382. Ancient Jewish History to 638 CE: From Israelite Origins to Islamic Conquest**  
(3). (ID). May not be repeated for credit. No credit granted for students who have taken both ACABS 322 and ACABS 326.

**JUDAIC 386 / GERMAN 391 / HISTORY 386. The Holocaust**  
(4). (SS). (R&E). May not be repeated for credit.

**JUDAIC 387 / AMCULT 387 / HISTORY 387. History of American Jews**  
(4; 3 in the half-term). May not be repeated for credit.

**JUDAIC 388 / HISTORY 384. Antisemitism and Philosemitism: Jews in Myth and Thought**  
(3). (HU). (R&E). May not be repeated for credit.

**JUDAIC 389 / ENGLISH 383. Jewish Literature**  
(3). (HU). May not be repeated for credit.

**JUDAIC 417. Topics in Judaic Studies**  
(3). May be elected three times for credit. May be elected more than once in the same term. Rackham credit requires additional work.

**JUDAIC 437 / AMCULT 437. Yiddish Culture in America**  
(3). (R&E). May not be repeated for credit. Rackham credit requires additional work.

**JUDAIC 441. The History of Jews at the University of Michigan: Exclusion and Inclusion in American Higher Education**  
(3). May not be repeated for credit. Rackham credit requires additional work.

**JUDAIC 451 / POLSCI 350. The Politics and Culture of Modern East European Jewry**  
A course in East European and/or Jewish history, and Comparative Politics is recommended. (3). May not be repeated for credit. Sp/Su in Poland.

**JUDAIC 467 / NEAREAST 476 / RELIGION 471. Seminar: Topics in the Study of Judaism**

(3). May be repeated for a maximum of 9 credits. May be elected more than once in the same term.

**JUDAIC 468 / NEAREAST 456 / RELIGION 469. Jewish Mysticism**  
(3). May not be repeated for credit. Taught in English.

**JUDAIC 470 / NEAREAST 442. Reading the Rabbis**  
NESLANG 202 or HEBREW 202. (4). May not be repeated for credit. No credit granted to those who have completed or are enrolled in NEAREAST 242 (ACABS 270/HJCS 270/JUDAIC 270).

**JUDAIC 478 / NEAREAST 455 / RELIGION 478. Modern Jewish Thought**  
(3). May not be repeated for credit. Taught in English.

**JUDAIC 495. Independent Studies**  
Consent of instructor required. (1 - 3). (INDEPENDENT). May not be repeated for credit. F.

**JUDAIC 496. Independent Studies**  
Consent of instructor required. (1 - 3). (INDEPENDENT). May not be repeated for credit.

**JUDAIC 497. Senior Thesis**  
Consent of instructor required. (3). (INDEPENDENT). May not be repeated for credit. Continuing Course. Y grade can be reported at end of the first-term to indicate work in progress. At the end of the second term of JUDAIC 498, the final grade is posted for both term's elections. F.

**JUDAIC 498. Senior Thesis**  
Consent of instructor required. (3). (INDEPENDENT). May not be repeated for credit.

## Yiddish (YIDDISH)

**YIDDISH 101 / GERMAN 127 / JUDAIC 101. Elementary Yiddish I**  
(4). May not be repeated for credit. No credit granted to those who have completed or are enrolled in JUDAIC 431 or YIDDISH 431. Graduate students elect JUDAIC 431 or YIDDISH 431. F.

**YIDDISH 102 / GERMAN 128 / JUDAIC 102. Elementary Yiddish II**  
JUDAIC/YIDDISH 101. (4). May not be repeated for credit. No credit granted to those who have completed or are enrolled in JUDAIC 432 or YIDDISH 432. Graduate students elect JUDAIC 432 or YIDDISH 432. W.

**YIDDISH 201 / GERMAN 227 / JUDAIC 201. Intermediate Yiddish I**  
JUDAIC/YIDDISH 102. (4). May not be repeated for credit. No credit granted to those who have completed or are enrolled in JUDAIC 531 or YIDDISH 531. Graduate students elect JUDAIC 531 or YIDDISH 531. F.

**YIDDISH 202 / GERMAN 228 / JUDAIC 202. Intermediate Yiddish II**  
JUDAIC/YIDDISH 201. (4). (Lang Req). May not be repeated for credit. No credit granted to those who have completed or are enrolled in JUDAIC 532 or YIDDISH 532. Graduate students elect JUDAIC 532 or



YIDDISH 532. W.

**YIDDISH 301 / GERMAN 327 / JUDAIC 301. Advanced Yiddish I**

JUDAIC 102 or YIDDISH 202. (3). May not be repeated for credit. No credit granted to those who have completed or are enrolled in JUDAIC 631 or YIDDISH 631. Graduate students elect JUDAIC 631 or YIDDISH 631. F.

**YIDDISH 302 / GERMAN 328 / JUDAIC 302. Advanced Yiddish II**

JUDAIC/YIDDISH 301. (3). May not be repeated for credit. No credit granted to those who have completed or are enrolled in JUDAIC 632 or YIDDISH 632. Graduate students elect JUDAIC 632 or YIDDISH 632. W.

**YIDDISH 332 / JUDAIC 332. The Yiddish Classics and Modernity**

(3). (HU). May not be repeated for credit.

## Courses in LSA Linguistics

### Cognitive Science (COGSCI)

**COGSCI 200. Introduction to Cognitive Science**

PSYCH 112, or one of LING 111, LING 209, or LING 210. (4). (ID). (BS). May not be repeated for credit.

### Linguistics (LING)

**LING 102. First Year Seminar (Humanities)**

Enrollment restricted to first-year students, including those with sophomore standing. (3). (HU). May not be repeated for credit.

**LING 103. First Year Seminar (Social Science)**

Enrollment restricted to first-year students, including those with sophomore standing. (3). (SS). May not be repeated for credit.

**LING 106. Start Talking: Introduction to First Language Acquisition**

(3). (SS). May not be repeated for credit.

**LING 111. Introduction to Language**

(3). (SS). May not be repeated for credit.

**LING 112. Languages of the World**

(3). (SS). May not be repeated for credit.

**LING 114. A World of Words**

(3). (HU). May not be repeated for credit.

**LING 115. Language in a Multicultural World**

(3). (SS). May not be repeated for credit.

**LING 192. Humanities Topics in Linguistics**

(1 - 4). (HU). May be elected twice for credit. May be elected more than once in the same term.

**LING 193. Social Sciences Topics in Linguistics**

(1 - 4). (SS). May be elected twice for credit. May be elected more than once in the same term.

**LING 209 / PSYCH 242. Language and Human Mind**

Not available to students who have completed LING 103 (courseID 020035), Topic: Language and Mind,(Topic #6). (Prerequisites enforced at registration.) (4; 3 in the half-term). (ID). May not be repeated for credit. Does not count toward the requirements for the Psychology major.

**LING 210. Introduction to Linguistic Analysis**

(4). (SS). May not be repeated for credit.

**LING 230. Honors Core in Linguistics**

Consent of department required. (4). (SS). May be elected twice for credit. May be elected more than once in the same term.

**LING 240. Honors Core Writing in Linguistics**

Consent of department required. (4). (SS). (FYWR). May be elected twice for credit. May be elected more than once in the same term.

**LING 272 / ANTHRCUL 272. Language in Society**

Primarily for first- and second-year students. (4). (SS). (R&E). May not be repeated for credit.

**LING 313. Sound Patterns**

LING 111, 209, 210, or 212. (3; 2 in the half-term). (SS). May not be repeated for credit.

**LING 315. Introduction to Syntax**

LING 111, 209, 210, or 212. (3; 2 in the half-term). May not be repeated for credit.

**LING 316. Aspects of Meaning**

LING 111, 209, 210, or 212. (3). May not be repeated for credit.

**LING 317. Language and History**

LING 111 or 210. (3; 2 in the half-term). (HU). May not be repeated for credit.

**LING 340. Introduction to Sociolinguistics**

LING 111 or 210. (3). May not be repeated for credit.

**LING 341. The Mathematics of Language**

One linguistics course. (3). May not be repeated for credit.

**LING 342. Perspectives on Bilingualism**

LING 111, 210, or 272. (3). May not be repeated for credit.

**LING 347 / PSYCH 349. Talking Minds**

At least one of: LING 111 or 210, or PSYCH 111, 112, 114, or 115. (3). (BS). May not be repeated for credit.

**LING 351 / ELI 351 / PSYCH 344. Second Language Acquisition**

LING 111 or 210. (3). (BS). May not be repeated for credit.

**LING 352 / PSYCH 352. Development of Language and Thought**

PSYCH 250. (3). (SS). May not be repeated for credit.

**LING 367 / ASIAN 367. Languages of Asia**

(3). (HU). May not be repeated for credit.

**LING 368 / ASIAN 368. How Different is Chinese?**

(3). (HU). May not be repeated for credit.

**LING 370 / ANTHRCUL 370. Language and Discrimination: Language as Social Statement**

(3). (SS). (R&E). May not be repeated for credit.

**LING 374 / ANTHRCUL 374. Language and Culture**

Sophomore standing. (4). (HU). May not be repeated for credit.

**LING 375. Language in the Mass Media: Linguistics and Language Variation in the Public Sphere**

LING 111 or 210. (3). (ID). May not be repeated for credit.

**LING 385. Experiential Practice**

Permission of instructor. (1 - 6). (EXPERIENTIAL). May be repeated for a maximum of 6 credits. Offered mandatory credit/no credit.

**LING 390 / EDUC 390 / ELI 390 / RCSSCI 390. Community-Engaged Learning in ESL Teaching Contexts**

(3). (EXPERIENTIAL). May be elected three times for credit.

**LING 391 / AMCULT 361 / EDUC 395 / ELI 395 / LATINOAM 361 / RCSSCI 395. Principles and Practices of Teaching ESL in Migrant Communities**

(3). (EXPERIENTIAL). May be elected three times for credit.

**LING 394. Topics in Linguistics**

LING 111 or 210. (1 - 4). May be elected twice for credit. May be elected more than once in the same term.

**LING 395. Individual Research**

Consent of instructor required. (1 - 4). (INDEPENDENT). May be repeated for a maximum of 6 credits. F, W, Sp, Su.

**LING 396 / AMCULT 362 / EDUC 396 / ELI 396 / LATINOAM 362 / RCSSCI 396. Migrant Community Outreach and ESL Teaching Practicum**

ELI 395; completed with a minimum grade of C or better. (Prerequisites enforced at registration.) (2 - 3). (EXPERIENTIAL). May be elected three times for credit.

**LING 408 / ENGLISH 408. Varieties of English**

(3). May not be repeated for credit.

**LING 412. Speech Perception**

LING 313. (Prerequisites enforced at registration.) (3). (BS). May not be repeated for credit.

**LING 413. Speech Science**

LING 313. (Prerequisites enforced at registration.) (3). May not be repeated for credit.

**LING 421. Morphology**

LING 313. (Prerequisites enforced at registration.) LING 315 or LING 316. (3; 2 in the half-term). May not be repeated for credit.

**LING 426 / PHIL 426. Philosophy and Linguistic Theory**

One philosophy introduction, one logic introduction, or concentration in Linguistics. (3; 2 in the half-term). May not be repeated for credit.

**LING 433 / ARABIC 507. Arabic Syntax and Semantics**

ARABIC 202 (AAPTIS 202) or ARABIC 203 (AAPTIS 205) completed with a minimum grade of C- or better. (Prerequisites enforced at registration.) (3). May not be repeated for credit.

**LING 440. Language Learnability**

LING 315. (Prerequisites enforced at registration.) (3). May not be repeated for credit.

**LING 441. Introduction to Computational Linguistics**

EECS 183 or the equivalent. Students planning to take LING 315 and 316 (e.g., Linguistics majors) should take them before taking LING 441. (3). (BS). May not be repeated for credit. Rackham credit requires additional work.

**LING 442. The Anatomy of Natural Language Processing Systems**

Computer programming ability. (3). May not be repeated for credit. Rackham credit requires additional work.

**LING 445. Cognitive Linguistics**

Background in linguistics, philosophy, or psychology of language. (3). May not be repeated for credit.

**LING 446 / LACS 446. Comparative Linguistics**

At least one course in Linguistics/language analysis. (3). May not be repeated for credit. Rackham credit requires additional work.

**LING 447 / PSYCH 445. Psychology of Language**

PSYCH 240. (Prerequisites enforced at registration.) (3). (BS). May not be repeated for credit.

**LING 449 / AAS 439. Creole Languages and Caribbean Identities**

AAS 202. (3; 2 in the half-term). May not be repeated for credit.

**LING 461 / AMCULT 461 / ANTHRCUL 461 / NATIVEAM 461.**

Language, Culture, and Society in Native North America (3). May not be repeated for credit.

**LING 471 / ANTHRCUL 471. Face-to-Face Interaction**

(3). May not be repeated for credit.

**LING 473 / ANTHRCUL 473. Ethno poetics: Cross-Cultural Approaches to Verbal Art**

Two courses in anthropology, linguistics, or literature or permission of instructor. (3; 2 in the half-term). May not be repeated for credit.

**LING 492. Topics in Linguistics**

(1 - 4). May be repeated for a maximum of 6 credits. May be elected more than once in the same term.

**LING 493. Undergraduate Reading**

Consent of instructor required. Permission of the concentration advisor. (1 - 3). (INDEPENDENT). May not be repeated for credit.

**LING 494. Undergraduate Reading**

Consent of instructor required. Permission of the concentration advisor. (1 - 3). (INDEPENDENT). May not be repeated for credit.

**LING 495. Senior Honors Reading Course**

Consent of instructor required. Permission of concentration advisor. (1 - 3). (INDEPENDENT). May not be repeated for credit. Continuing Course. Y grade can be reported at end of the first-term to indicate work in progress. At the end of the second term (LING 496), the final grade is posted for both term's elections. F, W, Sp/Su, Sp, Su.

**LING 496. Senior Honors Reading Course**

Consent of instructor required. LING 495. (1 - 3). (INDEPENDENT). May not be repeated for credit. F, W, Sp/Su, Su.

**LING 497. Capstone Seminar**

LING 313, 315 and 316. (Prerequisites enforced at registration.) (3). May be elected twice for credit. May be elected more than once in the same term.

**LING 512. Phonetics**

LING 313. (4). May not be repeated for credit. F.

**LING 513. Phonology**

LING 313. (3; 2 in the half-term). May not be repeated for credit. W.

**LING 515. Generative Syntax**

LING 315 or Permission of Instructor. (3; 2 in the half-term). May not be repeated for credit. F.

**LING 516. Semantics and Pragmatics**

Permission of instructor. (3; 2 in the half-term). May not be repeated for credit.

**LING 517 / ANTHRCUL 519 / GERMAN 517. Principles and Methods of Historical Linguistics**

Graduate standing, or permission of instructor. (3; 2 in the half-term). May not be repeated for credit.

**LING 522. Language Contact**

At least one introductory course in Linguistics. (3). May not be repeated for credit.

**LING 541 / EECS 595 / SI 561. Natural Language Processing**

Senior standing. (3). (BS). May not be repeated for credit. F.

**LING 542 / ANTHRCUL 572. Introduction to Sociolinguistics**

LING 411 or graduate standing. (3; 2 in the half-term). May not be repeated for credit.

## Courses in LSA Lloyd Hall Scholars

### Lloyd Hall Scholars Program (LHSP)

**LHSP 125. College Writing**

(4). (FYWR). May not be repeated for credit. A maximum of 20 Lloyd Hall Scholars Program credits may be counted toward a degree.

**LHSP 130. Writing and the Arts I**

(3). (CE). May not be repeated for credit. A maximum of 20 Lloyd Hall Scholars Program credits may be counted toward a degree.

**LHSP 140. Arts and Humanities**

(3). (CE). May be repeated for a maximum of 6 credits. May be elected more than once in the same term. A maximum of 20 Lloyd Hall Scholars Program credits may be counted toward a degree.

**LHSP 228. What is Writing?**

Completion of the First-Year Writing Requirement. (3). (HU). (R&E). May not be repeated for credit. A maximum of 20 Lloyd Hall Scholars Program credits may be counted toward a degree.

**LHSP 230. Writing and Arts II**

Completion of the First-Year Writing Requirement. (Prerequisites enforced at registration.) Experience in writing or the arts. Non-LSA students welcome and may request permission to enroll. (3). (CE). May be elected twice for credit. A maximum of 20 Lloyd Hall Scholars Program credits may be counted toward a degree.

**LHSP 299. Independent Study**

Consent of instructor required. (1 - 4). (INDEPENDENT). May be repeated for a maximum of 8 credits. A maximum of 20 Lloyd Hall Scholars Program credits may be counted toward a degree.

## Courses in LSA Mathematics

### Mathematics (MATH)

**MATH 100 / STATS 100. Introduction to Statistics, Probability and Mathematical Modeling**

Consent of department required. 3-4 years of high school mathematics, including trigonometry. (4; 3 in the half-term). (MSA). (BS). May not be repeated for credit. No credit granted to those who

have completed or are enrolled in SOC 210, STATS 280, 250, 400, 405 or 412, IOE 265, or ECON 404 or 405.

**MATH 103 / CSP 103. Intermediate Algebra**

Only open to designated summer half-term Bridge students. (2 in the half-term). May not be repeated for credit. Su.

**MATH 104 / CSP 104. Mathematical Thinking**

Only open to designated Summer half-term Bridge and M Academy students. (2 in the half-term). (QR/2). May not be repeated for credit.

**MATH 105. Data, Functions, and Graphs**

(4). (MSA). (QR/1). May not be repeated for credit. No credit granted to those who have completed any Mathematics course numbered 110 or higher. A maximum of four credits may be earned in MATH 105 and 110.

**MATH 106. Introduction to Calculus and Mathematical Modeling**

Consent of department required. (4). (MSA). (BS). (QR/1). May not be repeated for credit.

**MATH 110. Pre-Calculus (Self-Study)**

MATH 110 is by recommendation or permission of MATH 115 instructor. (2). May not be repeated for credit. No credit granted to those who already have 4 credits for pre-calculus mathematics courses. A maximum of four credits may be earned in MATH 105 and 110.

**MATH 115. Calculus I**

Four years of high school mathematics. (4). (MSA). (BS). (QR/1). May not be repeated for credit. No credit for students having completed Math 116, 185, 215, or 216.

**MATH 116. Calculus II**

MATH 115. (4). (MSA). (BS). (QR/1). May not be repeated for credit. Credit is granted for only one course among MATH 116 and 156. No credit for students having completed or enrolled in Math 156, 176, 186, 215, 216, 285, or 286.

**MATH 145. Houghton Scholars Calculus Workshop I**

Consent of department required. Concurrent enrollment in MATH 115. (2). May not be repeated for credit. Offered mandatory credit/no credit.

**MATH 146. Houghton Scholars Calculus Workshop II**

Credit in MATH 145. (Prerequisites enforced at registration.) Concurrent enrollment in MATH 116. (2). May not be repeated for credit. Offered mandatory credit/no credit.

**MATH 147. Introduction to Interest Theory**

Three to four years high school mathematics. (3). (MSA). (BS). May not be repeated for credit. No credit granted to those who have completed a 200- (or higher) level mathematics course, except MATH 385, 485, 489, or 497.

**MATH 156. Applied Honors Calculus II**

Score of 4 or 5 on the AB or BC Advanced Placement calculus exam. (4). (MSA). (BS). (QR/1). May not be repeated for credit. Credit is granted for either MATH 116 or 156, not both. F.

**MATH 175. An Introduction to Cryptology**

Permission of department. (4). (MSA). (BS). (QR/1). May not be repeated for credit. No credit granted to those who have completed a 200-level or higher Mathematics course other than 385 or 489. F.

**MATH 176. Explorations in Calculus**

Background in calculus is suggested, highly recommended for students who have taken Math 175. (4). (MSA). (BS). (QR/1). May not be repeated for credit. Credit is granted for either MATH 176 or 186, not both.

**MATH 185. Honors Calculus I**

Permission of the Honors advisor. (4). (MSA). (BS). (QR/1). May not be repeated for credit. F.

**MATH 186. Honors Calculus II**

Permission of the Honors advisor. (4). (MSA). (BS). (QR/1). May not be repeated for credit. Credit is granted for either MATH 176 or 186, not both. W.

**MATH 214. Applied Linear Algebra**

MATH 116, 156, 176, 186, or 296. (4). (MSA). (BS). (QR/1). May not be repeated for credit. No credit granted to those who have completed or are enrolled in MATH 217, 417, 419, or 420.

**MATH 215. Calculus III**

MATH 116, 156, 176, 186, or 296. (4). (MSA). (BS). (QR/1). May not be repeated for credit. Credit can be earned for only one of MATH 215 or 285.

**MATH 216. Introduction to Differential Equations**

Permission required after credit earned in MATH 256, 286, or 316. (Prerequisites enforced at registration.) MATH 116, 119, 156, 176, 186, or 296. (4). (MSA). (BS). (QR/1). May not be repeated for credit. Credit can be earned for only one of MATH 216, 256, 286, or 316.

**MATH 217. Linear Algebra**

MATH 215 or 285. Most students take only one course from MATH 214, 217, 417, and 419. (4). (MSA). (BS). (QR/1). May not be repeated for credit. No credit granted to those who have completed or are enrolled in MATH 419 or 420. Only 2 credits granted to those who have completed MATH 214 or 417.

**MATH 285. Honors Calculus III**

MATH 156, 176, or 186, or permission of the Honors advisor. (4). (MSA). (BS). (QR/1). May not be repeated for credit. Credit can be earned for only one of MATH 215 or 285. F.

**MATH 286. Honors Differential Equations**

Permission required after credit earned in MATH 216 or 316. (Prerequisites enforced at registration.) MATH 285. (3). (MSA). (BS).

(QR/1). May not be repeated for credit. Credit can be earned for only one of MATH 216, 286, or 316. W.

**MATH 289. Problem Seminar**

(1). (BS). May be repeated for credit.

**MATH 295. Honors Mathematics I**

Prior knowledge of first year calculus and permission of the Honors advisor. (4). (MSA). (BS). (QR/1). May not be repeated for credit. F.

**MATH 296. Honors Mathematics II**

MATH 295. (4). (BS). (QR/1). May not be repeated for credit. W.

**MATH 310. Chance and Choice**

Sophomore standing and one previous university math class. (3). (BS). (QR/1). May not be repeated for credit.

**MATH 312. Applied Modern Algebra**

MATH 217. (3). (BS). May not be repeated for credit. Only one credit granted to those who have completed MATH 412.

**MATH 316. Differential Equations**

Permission required after credit earned in MATH 216, 256, or 286. (Prerequisites enforced at registration.) MATH 215, 255, or 285 and 217. (3). (BS). May not be repeated for credit. Credit can be earned for only one of MATH 216, 256, 286, or 316.

**MATH 333. Directed Tutoring**

Consent of instructor required. Enrollment in the secondary teaching certificate program with concentration in Mathematics and permission of instructor. (1 - 3). (EXPERIENTIAL). May be repeated for a maximum of 3 credits. F, W, Sp. Offered mandatory credit/no credit.

**MATH 351. Principles of Analysis**

MATH 215 and 217. (3). (BS). May not be repeated for credit. No credit granted to those who have completed or are enrolled in MATH 451.

**MATH 354. Fourier Analysis and its Applications**

Permission required after credit earned in MATH 454. (Prerequisites enforced at registration.) MATH 216, 256, 286, or 316. (3). (BS). May not be repeated for credit. No credit granted to those who have completed or are enrolled in MATH 450 or 454.

**MATH 371 / ENGR 371. Numerical Methods for Engineers and Scientists**

ENGR 101; one of MATH 216, 256, 286, or 316, and one of MATH 215, 217, 417, or 419. (3). (BS). May not be repeated for credit. No credit granted to those who have completed or are enrolled in MATH 471 or 472.

**MATH 385. Mathematics for Elementary School Teachers**

One year each of high school algebra and geometry. (3). May not be repeated for credit. No credit granted to those who have completed or are enrolled in MATH 485.

**MATH 389. Explorations in Math Research**

Consent of department required. MATH 215 and familiarity with Maple or other math modeling computer program. (3). (BS). May not be repeated for credit.

**MATH 395. Honors Analysis I**

MATH 296 or permission of the Honors advisor. (4). (BS). May not be repeated for credit.

**MATH 396. Honors Analysis II**

MATH 395. (4). (BS). May not be repeated for credit. W.

**MATH 399. Independent Reading**

Consent of instructor required. (1 - 6). (INDEPENDENT). May be repeated for credit. F, W, Sp/Su, Sp, Su.

**MATH 404. Intermediate Differential Equations and Dynamics**

MATH 216, 256, 286 or 316. (3). (BS). May not be repeated for credit.

**MATH 412. Introduction to Modern Algebra**

MATH 215, 255 or 285; and 217; only 1 credit after MATH 312. (3). (BS). May not be repeated for credit. No credit granted to those who have completed or are enrolled in MATH 493. One credit granted to those who have completed MATH 312.

**MATH 416. Theory of Algorithms**

[MATH 312, 412 or EECS 280] and MATH 465. (3). (BS). May not be repeated for credit.

**MATH 417. Matrix Algebra I**

Three courses beyond MATH 110. (3). (BS). May not be repeated for credit. No credit granted to those who have completed or are enrolled in MATH 214, 217, 419, or 420. MATH 417 and 419 not be used as electives in the Statistics concentration.

**MATH 419. Linear Spaces and Matrix Theory**

Four courses beyond MATH 110. (3). (BS). May not be repeated for credit. 2 credits granted to those who have completed MATH 214, 217, or 417. No credit for those who have completed or are enrolled in 420. MATH 417 and 419 not be used as electives in the Statistics concentration. F, W, Su.

**MATH 420. Advanced Linear Algebra**

Linear algebra course (MATH 214, 217, 417, or 419) and one of MATH 296, 412, or 451. (3). (BS). May not be repeated for credit.

**MATH 423. Mathematics of Finance**

MATH 217 and 425; EECS 183 or equivalent. (3). (BS). May not be repeated for credit.

**MATH 424. Compound Interest and Life Insurance**

MATH 215, 255, or 285 or permission of instructor. (3). (BS). May not be repeated for credit.

**MATH 425 / STATS 425. Introduction to Probability**

MATH 215. (3). (BS). May not be repeated for credit.

**MATH 429. Internship**

Concentration in Mathematics. (1). (EXPERIENTIAL). May be elected three times for credit. Continuing Course. Y grade can be reported at end of the first-term to indicate work in progress. At the end of the second term of MATH 429, the final grade is posted for both term's elections. May not apply toward a Mathematics concentration. May be used to satisfy the Curriculum Practical Training (CPT) required of foreign students. Internship credit is not retroactive and must be prearranged. Offered mandatory credit/no credit.

**MATH 431. Topics in Geometry for Teachers**

One of MATH 215, 255, or 285 (completed with a minimum grade of C- or better), and MATH 217 (completed with a minimum grade of C- or better). (Prerequisites enforced at registration.) (3). (BS). May not be repeated for credit.

**MATH 433. Introduction to Differential Geometry**

MATH 215 (or 255 or 285), and 217. (3). (BS). May not be repeated for credit.

**MATH 450. Advanced Mathematics for Engineers I**

Permission required after credit earned in MATH 354 or 454. Consent of department required. (Prerequisites enforced at registration.) MATH 215, 255, or 285. (4). (BS). May not be repeated for credit. No credit granted to those who have completed or are enrolled in MATH 354 or 454. F, W, Su.

**MATH 451. Advanced Calculus I**

Previous exposure to abstract mathematics, e.g. MATH 217 and 412. (3). (BS). May not be repeated for credit. No credit granted to those who have completed or are enrolled in MATH 351.

**MATH 452. Advanced Calculus II**

MATH 217, 419, or 420; and MATH 451. (3). (BS). May not be repeated for credit. W.

**MATH 454. Boundary Value Problems for Partial Differential Equations**

Permission required after credit earned in MATH 354 or 450. (Prerequisites enforced at registration.) MATH 216, 256, 286 or 316. (3). (BS). May not be repeated for credit. Students with credit for MATH 354 can elect MATH 454 for one credit. No credit granted to those who have completed or are enrolled in MATH 450.

**MATH 462. Mathematical Models**

MATH 216, 256, 286, or 316; and MATH 214, 217, 417, or 419. Students with credit for MATH 463 must have department permission to elect MATH 462. (3). (BS). May not be repeated for credit. Students with credit for MATH 362 must have department permission to elect MATH 462.

**MATH 463 / BIOINF 463 / BIOPHYS 463. Mathematical Modeling in Biology**

MATH 214, 217, 417, or 419; and MATH 216, 256, 286, or 316. (3).

(BS). May not be repeated for credit.

**MATH 465. Introduction to Combinatorics**

Linear Algebra (one of MATH 214, 217, 256, 286, 296, 417, or 419) or permission of instructor. (3). (BS). May not be repeated for credit. No credit granted to those who have completed or are enrolled in MATH 565 or 566. Rackham credit requires additional work.

**MATH 466 / EEB 466. Mathematical Ecology**

MATH 217, 417, or 419; MATH 256, 286, or 316; and MATH 450 or 451. (3). May not be repeated for credit. Rackham credit requires additional work.

**MATH 471. Introduction to Numerical Methods**

MATH 216, 256, 286, or 316; and 214, 217, 417, or 419; and a working knowledge of one high-level computer language. No credit granted to those who have completed or are enrolled in MATH 371 or 472. (3). (BS). May not be repeated for credit. No credit granted to those who have completed or are enrolled in MATH 371 or 472.

**MATH 472. Numerical Methods with Financial Applications**

Differential Equations (MATH 216, 256, 286, or 316); Linear Algebra (MATH 214, 217, 417, or 419); working knowledge of a high-level computer language. Recommended: MATH 425. (3). (BS). May not be repeated for credit. No credit granted to those who have completed or are enrolled in MATH 471 or 371.

**MATH 475. Elementary Number Theory**

At least three terms of college Mathematics are recommended. (3). (BS). May not be repeated for credit. W.

**MATH 476. Computational Laboratory in Number Theory**

Prior or concurrent enrollment in MATH 475 or 575. (1). (BS). May not be repeated for credit.

**MATH 481. Introduction to Mathematical Logic**

MATH 412 or 451 or equivalent experience with abstract mathematics. (3). (BS). May not be repeated for credit. F.

**MATH 485 / EDUC 485. Mathematics for Elementary School Teachers and Supervisors**

One year of high school algebra or permission of the instructor. (3). May not be repeated for credit. No credit granted to those who have completed or are enrolled in MATH 385. May not be included in a concentration plan in Mathematics. F, Su.

**MATH 486. Concepts Basic to Secondary Mathematics**

One of MATH 215, 255, or 285 (completed with a minimum grade of C- or better), and MATH 217 (completed with a minimum grade of C- or better) OR permission of instructor. (Prerequisites enforced at registration.) (3). (BS). May not be repeated for credit. W.

**MATH 487. Number Theory and Algebra for Secondary Teachers**

Math 486 or the prerequisites to 486 (One of MATH 215, 255, or 285 completed with a minimum grade of C- or better, AND MATH 217 completed with a minimum grade of C- or better OR permission of

instructor). (Prerequisites enforced at registration.) (3). May not be repeated for credit.

**MATH 489. Mathematics for Elementary and Middle School Teachers**

MATH 385. (Prerequisites enforced at registration.) (3). May not be repeated for credit. May not be used in any Graduate program in Mathematics.

**MATH 490. Introduction to Topology**

MATH 451 or equivalent experience with abstract mathematics. (3). (BS). May not be repeated for credit.

**MATH 493. Honors Algebra I**

MATH 296. (3). (BS). May not be repeated for credit.

**MATH 494. Honors Algebra II**

MATH 493. (Prerequisites enforced at registration.) (3). (BS). May not be repeated for credit.

**MATH 497. Topics in Elementary Mathematics**

MATH 489 or permission of instructor. (3). (BS). May be repeated for a maximum of 6 credits. F.

**MATH 498. Topics in Modern Mathematics**

Senior Mathematics concentrators and Master Degree students in Mathematical disciplines. (3). (BS). May not be repeated for credit.

**MATH 501. Applied & Interdisciplinary Mathematics Student**

**Seminar**

At least two 300 or above level math courses, and Graduate standing; Qualified undergraduates with permission of instructor only. (1). May be repeated for a maximum of 6 credits. Offered mandatory credit/no credit.

**MATH 507. Mathematical Methods for Algorithmic Trading**

(3). May not be repeated for credit.

**MATH 520. Life Contingencies I**

MATH 424 and 425 with minimum grade of C-, plus declared Actuarial/Financial Mathematics Concentration. (Prerequisites enforced at registration.) (3). (BS). May not be repeated for credit.

**MATH 521. Life Contingencies II**

MATH 520 with a grade of C- or higher. (Prerequisites enforced at registration.) (3). (BS). May not be repeated for credit.

**MATH 523. Loss Models I**

MATH/STATS 425. (Prerequisites enforced at registration.) (3). (BS). May not be repeated for credit.

**MATH 524. Loss Models II**

STATS 426 and MATH 523. (Prerequisites enforced at registration.) (3). (BS). May not be repeated for credit.

**MATH 525 / STATS 525. Probability Theory**

MATH 451 (strongly recommended). MATH 425/STATS 425 would be helpful. (3). (BS). May not be repeated for credit.

**MATH 526 / STATS 526. Discrete State Stochastic Processes**

MATH 525 or STATS 525 or EECS 501. (3). (BS). May not be repeated for credit.

**MATH 531. Transformation Groups in Geometry**

MATH 451 or equivalent experience with abstract mathematics. (3). (BS). May not be repeated for credit.

**MATH 537. Introduction to Differentiable Manifolds**

MATH 420, and 590 or 591. (3). (BS). May not be repeated for credit.

**MATH 555. Introduction to Functions of a Complex Variable with Applications**

MATH 451 or equivalent experience with abstract mathematics. (3). (BS). May not be repeated for credit.

**MATH 556. Applied Functional Analysis**

MATH 217, 419, or 420; MATH 451; and MATH 555. (3). (BS). May not be repeated for credit.

**MATH 557. Applied Asymptotic Analysis**

MATH 217, 419, or 420; MATH 451; and MATH 555. (3). (BS). May not be repeated for credit.

**MATH 558. Applied Nonlinear Dynamics**

MATH 451. (3). (BS). May not be repeated for credit.

**MATH 559. Selected Topics in Applied Mathematics**

MATH 451; and 217, 419, or 420. (3). (BS). May be repeated for a maximum of 6 credits.

**MATH 561 / IOE 510 / TO 518. Linear Programming I**

MATH 217, 417, or 419. (3). (BS). May not be repeated for credit. F, W, Sp.

**MATH 562 / IOE 511. Continuous Optimization Methods**

MATH 217, 417, or 419. (3). (BS). May not be repeated for credit.

**MATH 565. Combinatorics and Graph Theory**

MATH 465. (3). (BS). May not be repeated for credit.

**MATH 566. Combinatorial Theory**

MATH 465. (3). (BS). May not be repeated for credit.

**MATH 567. Introduction to Coding Theory**

One of MATH 217, 419, 420. (3). (BS). May not be repeated for credit.

**MATH 568 / BIOINF 568. Mathematical and Computational Neuroscience**

MATH 463 or 462 (for undergraduate students) or Graduate standing.

(Prerequisites enforced at registration.) (3). (BS). May not be repeated for credit.

**MATH 571. Numerical Linear Algebra**

MATH 214, 217, 417, 419, or 420; and one of MATH 450, 451, or 454. (3). (BS). May not be repeated for credit.

**MATH 572. Numerical Methods for Differential Equations**

MATH 214, 217, 417, 419, or 420; and one of MATH 450, 451, or 454. (3). (BS). May not be repeated for credit.

**MATH 573. Financial Mathematics I**

(3). (BS). May not be repeated for credit.

**MATH 574. Financial Mathematics II**

MATH 526 and MATH 573. (Prerequisites enforced at registration.) Although MATH 506 is not a prerequisite for MATH 574, it is strongly recommended that either these courses are taken in parallel, or MATH 506 precedes MATH 574. (3). (BS). May not be repeated for credit.

**MATH 575. Introduction to Theory of Numbers I**

MATH 451 and 420 or permission of instructor. (1 - 3). (BS). May not be repeated for credit. Students with credit for MATH 475 can elect MATH 575 for 1 credit.

**MATH 582. Introduction to Set Theory**

MATH 412 or 451 or equivalent experience with abstract mathematics. (3). (BS). May not be repeated for credit.

**MATH 590. Introduction to Topology**

MATH 451. (3). (BS). May not be repeated for credit. Rackham credit requires additional work.

**MATH 591. Differentiable Manifolds**

MATH 451, 452 and 590. (3). (BS). May not be repeated for credit.

**MATH 592. Introduction to Algebraic Topology**

MATH 591. (3). (BS). May not be repeated for credit.

**MATH 593. Algebra I**

MATH 412, 420, and 451 or MATH 494. (3). (BS). May not be repeated for credit.

**MATH 594. Algebra II**

MATH 593. (3). (BS). May not be repeated for credit.

**MATH 596. Analysis I**

MATH 451. (3). (BS). May not be repeated for credit. Students with credit for MATH 555 may elect MATH 596 for two credits only.

**MATH 597. Analysis II**

MATH 451 and 420. (3). (BS). May not be repeated for credit.

## Courses in LSA Molecular, Cellular, and Developmental Biology

### Molecular, Cellular, and Developmental Biology (MCDB)

**MCDB 300. Undergraduate Research**

Consent of instructor required. Eight credits of BIOLOGY/MCDB courses; 3.0 GPA in science courses. (1 - 3). (BS). (INDEPENDENT). May be repeated for a maximum of 9 credits. Continuing Course. Y grade can be reported at end of the first-term to indicate work in progress. At the end of the second term (MCDB 300 or 400), the final grade is posted for both term's elections. Three credits of independent research must be completed in one term to satisfy a Biology laboratory requirement. A maximum of three credits of any independent study course may count toward the Biology concentration programs.

**MCDB 301. Active Learning Assistant**

Consent of instructor required. BIOLOGY 171, 172/174, and 173, as well as experience in the target course subject matter. (2). (EXPERIENTIAL). May be elected four times for credit. 8 credits max allowed between EEB 301 and MCDB 301. Offered mandatory credit/no credit.

**MCDB 302. Teaching Experience for Undergraduates**

Consent of instructor required. (1 - 3). (EXPERIENTIAL). May not be repeated for credit.

**MCDB 303. Topics in Biology**

Recommended prerequisites will be established at the class level by the section instructors. (1 - 4). (NS). (BS). May be repeated for a maximum of 6 credits. May be elected more than once in the same term.

**MCDB 306. Introductory Genetics Laboratory**

BIOLOGY 171 & 172 (or 174) & 173; or BIOLOGY 195 & 173. (Prerequisites enforced at registration.) Prior or concurrent enrollment in BIOLOGY 305. (3). (BS). May not be repeated for credit. F and W. Satisfies a Biology laboratory requirement.

**MCDB 310. Introductory Biochemistry**

CHEM 210; and one of: BIOLOGY 172 or 174 or [195 and 173]. (Prerequisites enforced at registration.) Prior or concurrent enrollment in CHEM 215. (3). (BS). May not be repeated for credit. No credit granted to those who have completed or are enrolled in BIOLCHEM 415 or 451 or 515, or CHEM 351 or 451.

**MCDB 321. Introductory Plant Physiology Lectures**

BIOLOGY 162 or 163 or [171 and (172 or 174)] or 195. (Prerequisites enforced at registration.) College Physics recommended. (3). (BS). May not be repeated for credit.

**MCDB 351. Synapses**

BIOLOGY 222 or 225. (Prerequisites enforced at registration.) (4). (BS). May not be repeated for credit.



**MCDB 352. Neurobiology of Sensory and Motor Systems**

*BIOLOGY 225. (Prerequisites enforced at registration.) (4). (BS). May not be repeated for credit. No credit granted to those who have completed or are enrolled in BIOLOGY 222.*

**MCDB 396. Science Outreach for Biology**

*BIOLOGY 172. (Prerequisites enforced at registration.) (3). (BS). May not be repeated for credit.*

**MCDB 397 / EEB 397. Writing in Biology**

*MCDB 300 or 400, or EEB 300 or 400, or permission of instructor. (3). (BS). May not be repeated for credit. No credit granted to those who have completed or are enrolled in EEB 301 or MCDB 301.*

**MCDB 399 / EEB 399. Doing Science: An Introduction to Experimental Design in the Life Sciences**

*Prior or concurrent enrollment in MCDB or EEB 300. (1 in the half-term). (BS). May not be repeated for credit.*

**MCDB 400. Advanced Research**

*MCDB 300. (Prerequisites enforced at registration.) 12 credits of biology, 3.0 average in science, and permission of faculty member in biology. (1 - 3). (BS). (INDEPENDENT). May be repeated for a maximum of 9 credits. Continuing Course. Y grade can be reported at end of the first-term to indicate work in progress. At the end of the second term of MCDB 400, the final grade is posted for both term's elections. Three credits of independent research must be completed in one term to satisfy a Biology laboratory requirement. A maximum of three credits of any independent study course may count toward the Biology concentration programs.*

**MCDB 401. Advanced Topics in Biology**

*Seniors or Graduate standing. Prerequisites will be set by the instructor as appropriate for each section. (3). (BS). May be repeated for a maximum of 6 credits.*

**MCDB 402. Molecular Biology of Pain and Sensation**

*BIOLOGY 222 or BIOLOGY 225 or MCDB 422. (Prerequisites enforced at registration.) BIOLOGY 305; MCDB 310, BIOLCHEM 415 or CHEM 351; and MCDB 423. (3). (BS). May not be repeated for credit. Rackham credit requires additional work.*

**MCDB 403. Molecular and Cell Biology of the Synapse**

*One of: MCDB 310, MCDB 311, BIOLCHEM 415, or CHEM 351. (Prerequisites enforced at registration.) BIOLOGY 305 and MCDB 422. (3). (BS). May not be repeated for credit. Rackham credit requires additional work.*

**MCDB 404 / EEB 404. Genetics, Development, and Evolution**

*BIOLOGY 305. (Prerequisites enforced at registration.) (3). (BS). May not be repeated for credit.*

**MCDB 405. Molecular Basis of Development**

*BIOLOGY 305; or graduate standing. (Prerequisites enforced at registration.) (3). (BS). May not be repeated for credit.*

**MCDB 410. Capstone: Integrating Cellular and Molecular Biology Concepts**

*BIOLOGY 305 and (MCDB 310, CHEM 351, or BIOLCHEM 415); or Graduate Standing. (Prerequisites enforced at registration.) (3). (BS). May not be repeated for credit. Rackham credit requires additional work.*

**MCDB 411. Protein Structure and Function**

*MCDB 310, BIOLCHEM 415, or CHEM 351. Or Graduate standing. (Prerequisites enforced at registration.) (3). (BS). May not be repeated for credit. F.*

**MCDB 412. Teaching Biology**

*Consent of instructor required. (3). (EXPERIENTIAL). May be elected twice for credit. F.*

**MCDB 415. Microbial Genetics**

*BIOLOGY 305; and MCDB 310, BIOLCHEM 415, or CHEM 351. Or Graduate Standing. (Prerequisites enforced at registration.) (3). (BS). May not be repeated for credit.*

**MCDB 416 / EEB 416. Introduction to Bioinformatics**

*BIOLOGY 305 and EEB 390, or graduate standing. (Prerequisites enforced at registration.) (4). (BS). May not be repeated for credit. Rackham credit requires additional work.*

**MCDB 417. Chromosome Structure and Function**

*BIOLOGY 305. (Prerequisites enforced at registration.) (3). (BS). May not be repeated for credit. Rackham credit requires additional work.*

**MCDB 418. Endocrinology**

*BIOLOGY 225; BIOLOGY 305; and MCDB 310 or BIOLCHEM 415 or CHEM 351 (or consent of instructor). (Prerequisites enforced at registration.) (3). (BS). May not be repeated for credit. F.*

**MCDB 419. Endocrinology Laboratory**

*Prior or concurrent enrollment in BIOLOGY 225 or 310 or 311, or MCDB 418 or 426. (3). (BS). May not be repeated for credit. F. Satisfies a Biology laboratory requirement.*

**MCDB 421. Topics in Cellular and Molecular Neurobiology**

*BIOLOGY 225 and PSYCH 230 or NEUROSCI 601. (3). (BS). May be elected twice for credit. May be elected more than once in the same term. Rackham credit requires additional work.*

**MCDB 422. Brain Development, Plasticity, and Circuits**

*MCDB 310 or 311, or BIOLCHEM 415, or CHEM 351; or graduate standing. (Prerequisites enforced at registration.) (3). (BS). May not be repeated for credit. F.*

**MCDB 423. Introduction to Research in Cellular and Molecular Neurobiology**

*BIOLOGY 173. (Prerequisites enforced at registration.) BIOLOGY 225 or BIOLOGY 222; or concurrent enrollment in MCDB 422. (3). (BS). May not be repeated for credit. F and W. Satisfies a Biology laboratory*

requirement.

**MCDB 424. Behavioral Neurobiology Laboratory**

(*BIOLOGY 225* or *PSYCH 230*) and *BIOLOGY 173*. (Prerequisites enforced at registration.) *BIOLOGY 305*. (2). (BS). May not be repeated for credit. Rackham credit requires additional work.

**MCDB 426. Molecular Endocrinology**

*BIOLOGY 225*; and one of: *MCDB 310* or *311*, or *BIOLCHEM 415*, or *CHEM 351*; or Graduate standing. (Prerequisites enforced at registration.) (3). (BS). May not be repeated for credit.

**MCDB 427. Molecular Biology**

*BIOLOGY 305*, and one of *MCDB 310* or *BIOLCHEM 415* or *CHEM 351*; OR Graduate standing. (Prerequisites enforced at registration.) (4). (BS). May not be repeated for credit. F.

**MCDB 428. Cell Biology**

*MCDB 310*, *BIOLCHEM 415*, or *CHEM 351*; or graduate standing. (Prerequisites enforced at registration.) (4). (BS). May not be repeated for credit. Students with credit for *MCDB 320* must obtain permission of instructor. W.

**MCDB 429. Laboratory in Cell and Molecular Biology**

*BIOLOGY 173*. (Prerequisites enforced at registration.) *MCDB 427* or *428*, or concurrent enrollment in *MCDB 428*. (3). (BS). May not be repeated for credit. No credit granted to those who have completed or are enrolled in *BIOLCHEM 416* or *516*. This course can be used to satisfy requirements for the Cell and Molecular Biology Concentration and the Biology Concentration. W. Satisfies a Biology laboratory requirement.

**MCDB 430. Molecular Biology of Plants**

*BIOLOGY 305*; and *MCDB 310*, *BIOLCHEM 415*, or *CHEM 351*. Or Graduate standing. (Prerequisites enforced at registration.) (3). (BS). May not be repeated for credit. W.

**MCDB 433. Plant Metabolic Biochemistry**

*BIOLOGY 305* and (*MCDB 310*, *BIOLCHEM 415*, or *CHEM 351*). (Prerequisites enforced at registration.) (3). (BS). May not be repeated for credit.

**MCDB 435. Intracellular Trafficking**

*BIOLOGY 305*; or Graduate Standing. (Prerequisites enforced at registration.) *MCDB 428*. (3). (BS). May not be repeated for credit.

**MCDB 436. Introductory Immunology**

*MCDB 310*, *BIOLCHEM 415*, or *CHEM 351*. Or Graduate standing. (Prerequisites enforced at registration.) (3). (BS). May not be repeated for credit. *MICRBIOL/IMMUNO 440/540*. Only one of *MICRBIOL 440* or *IMMUNO 440* or *MCDB 436* will count toward a Microbiology major.

**MCDB 437. Microbial Communication and Development**

*BIOLOGY 305*; and one of: *MCDB 310* or *BIOLCHEM 415* or *CHEM 351*. (Prerequisites enforced at registration.) (3). (BS). May not be repeated

for credit. Rackham credit requires additional work.

**MCDB 440. Cell Cycle Control and Cancer**

Genetics (*BIOLOGY 305*) and Biochemistry (*MCDB 310*, *CHEM 351*, or *BIOLCHEM 415*). (Prerequisites enforced at registration.) (3). (BS). May not be repeated for credit. Rackham credit requires additional work.

**MCDB 441. Cell Biology and Disease**

Consent of instructor required. *MCDB 428* and [*MCDB 310* or *MCDB 311* or *BIOLCHEM 415* or *CHEM 351*]. (3). May not be repeated for credit. Rackham credit requires additional work.

**MCDB 444. Bacterial Cell Biology**

*BIOLOGY 305*; and *MCDB 310*, *BIOLCHEM 415*, or *CHEM 351*. Or Graduate standing. (Prerequisites enforced at registration.) (3). (BS). May not be repeated for credit. Rackham credit requires additional work.

**MCDB 448. Telomerase Function in Stem Cells and Cancers**

*BIOLOGY 305* and (*MCDB 310* or *CHEM 351* or *BIOLCHEM 415*). (Prerequisites enforced at registration.) (3). (BS). May not be repeated for credit. Rackham credit requires additional work.

**MCDB 450. Genetics and Molecular Biology of Complex Behavior**

*BIOLOGY 222* or *225*; *BIOLOGY 305*; and, one of: *MCDB 310*, *BIOLCHEM 415*, or *CHEM 351*. (Prerequisites enforced at registration.) (3). (BS). May not be repeated for credit. Rackham credit requires additional work.

**MCDB 453. Ion Channels and their Channelopathies**

[*BIOLOGY 225* OR *Physiology 502* or *Neuroscience 601*] AND [*MCDB 310* OR *Biological Chem 415* OR *Chem 351*], OR [Permission of the instructor]. (Prerequisites enforced at registration.) (3). (BS). May not be repeated for credit. Rackham credit requires additional work.

**MCDB 454. Cytoskeletal Dynamics**

*BIOLOGY 305*; and one of: *MCDB 310* or *BIOLCHEM 415* or *CHEM 351*. (Prerequisites enforced at registration.) *MCDB 427* and/or *MCDB 428*. (3). (BS). May not be repeated for credit. Rackham credit requires additional work.

**MCDB 455. Cell Biology of Neurodegeneration**

*BIOLOGY 222* or *225* or *305*; and *MCDB 310* or *BIOLCHEM 415* or *CHEM 351*. (Prerequisites enforced at registration.) *MCDB 422* or *428*. (3). (BS). May not be repeated for credit. Rackham credit requires additional work.

**MCDB 456. Genes, Circuits, and Behavior**

*BIOLOGY 222* or *225* or *MCDB 422*; and *BIOLOGY 305*. (Prerequisites enforced at registration.) *MCDB 310* or *BIOLCHEM 415* or *CHEM 351*. (3). (BS). May not be repeated for credit. Rackham credit requires additional work.

**MCDB 457. Neurobiology of Sexual and Aggressive Behaviors**

*BIOLOGY 225* or *PSYCH 230*. (Prerequisites enforced at registration.) *BIOLOGY 305*. (3). (BS). May not be repeated for credit. Rackham

credit requires additional work.

#### **MCDB 459. Brain States and Behavior**

BIOLOGY 225. (Prerequisites enforced at registration.) BIOLOGY 305, MCDB 351 or 352. (3). (BS). May not be repeated for credit. Rackham credit requires additional work.

#### **MCDB 462. Epigenetics**

BIOLOGY 305; and one of MCDB 310 or BIOLCHEM 415 or CHEM 351. (Prerequisites enforced at registration.) (3). (BS). May not be repeated for credit.

#### **MCDB 489. Microbial Genes and Genomes**

BIOLOGY 305; and one of: MCDB 310 or 311, or BIOLCHEM 415, or CHEM 351; or graduate standing. (Prerequisites enforced at registration.) (3). (BS). May not be repeated for credit.

#### **MCDB 494 / EEB 494. Teaching College Science**

Consent of department required. Science concentrators having completed a range of courses, such as BIOLOGY 171,172 and 173; BIOLOGY 225, 281, 305 or EEB 390; CHEM 130, 210 or 211; PHYSICS 140 or 160; or EARTH 119. (2). (BS). May not be repeated for credit.

#### **MCDB 499 / EEB 499. Responsible Conduct of Research and Scholarship in Biology**

Prior or concurrent enrollment in MCDB or EEB 300. (1). (BS). May not be repeated for credit. Does not count toward electives for the EEB major, or the Biology major or minor. Offered mandatory credit/no credit.

## **Courses in LSA Near Eastern Studies**

### **Arabic Studies (ARABIC)**

#### **ARABIC 101. Elementary Arabic I**

(5). May not be repeated for credit. No credit granted to those who have taken or are enrolled in ARABIC 103 (AAPTIS 103).

#### **ARABIC 102. Elementary Arabic II**

ARABIC 101 (AAPTIS 101) (completed with a minimum grade of C- or better). (Prerequisites enforced at registration.) ARABIC 101 (AAPTIS 101) or by assignment to ARABIC 102 (AAPTIS 102) by Placement test. (5). May not be repeated for credit. No credit granted to those who have taken or are enrolled in ARABIC 103 (AAPTIS 103).

#### **ARABIC 103. Intensive Elementary Arabic I and II**

Recommended for undergraduates majoring in Arabic and those who need Arabic for academic and research purposes. (10 in the half-term). May not be repeated for credit. No credit granted to those who have completed or are enrolled in ARABIC 101 or 102.

#### **ARABIC 201. Intermediate Arabic I**

ARABIC 102 (AAPTIS 102) or ARABIC 103 (AAPTIS 103) completed with

a minimum grade of C- or better; or by assignment to ARABIC 201 by placement test. (Prerequisites enforced at registration.) ARABIC 102 (AAPTIS 102), ARABIC 103 (AAPTIS 103), or by assignment to ARABIC 201 by placement test. (5). May not be repeated for credit. No credit granted to those who have completed or are enrolled in ARABIC 203 (AAPTIS 205).

#### **ARABIC 202. Intermediate Arabic II**

ARABIC 201 (AAPTIS 201) (completed with a minimum grade of C- or better). (Prerequisites enforced at registration.) ARABIC 201 (AAPTIS 201) or by assignment to ARABIC 202 (AAPTIS 202) by placement test. (5). (Lang Req). May not be repeated for credit. No credit granted to those who have completed or are enrolled in ARABIC 203 (AAPTIS 205).

#### **ARABIC 203. Intensive Intermediate Arabic I and II**

ARABIC 102 (AAPTIS 102) with at least a C-. (Prerequisites enforced at registration.) ARABIC 102 or 103. Recommended for Arabic majors and those who need Arabic for academic and research purposes. (10 in the half-term). (Lang Req). May not be repeated for credit. No credit granted to those who have completed or are enrolled in ARABIC 201 or 202.

#### **ARABIC 401. Advanced Arabic I**

ARABIC 202 (AAPTIS 202), ARABIC 203 (AAPTIS 205) completed with a minimum grade of C- or better. (Prerequisites enforced at registration.) ARABIC 202 (AAPTIS 202), ARABIC 203 (AAPTIS 205) or assignment to ARABIC 401 by placement test. (5). May not be repeated for credit.

#### **ARABIC 402. Advanced Arabic II**

ARABIC 401 (AAPTIS 403) (completed with a minimum grade of C- or better). (Prerequisites enforced at registration.) ARABIC 401 (AAPTIS 403) or by assignment to ARABIC 402 (AAPTIS 404) by placement test. (5). May not be repeated for credit.

#### **ARABIC 410. Topics in Arabic Language**

Completion of ARABIC 202. Students cannot elect the same topic twice. (3). May be elected twice for credit. Taught in Arabic.

#### **ARABIC 499. Independent Study in Arabic**

Consent of department required. (1 - 4). (INDEPENDENT). May be elected three times for credit.

#### **ARABIC 501. Advanced Arabic Conversation and Composition**

ARABIC 402 (AAPTIS 404) or equivalent. Taught in Arabic. (3). May not be repeated for credit.

#### **ARABIC 503. Classical Arabic Grammar**

Three years of Arabic study. (3). May not be repeated for credit.

#### **ARABIC 504. Advanced Arabic Media I**

ARABIC 402 (AAPTIS 404) or equivalent. (4). May not be repeated for credit.

#### **ARABIC 506. Arabic Phonology and Morphophonology**

ARABIC 202 (AAPTIS 202) or ARABIC 203 (AAPTIS 205) (completed with

a minimum grade of C- or better). (Prerequisites enforced at registration.) (3). May not be repeated for credit. No credit granted to those who are enrolled in or have completed ARABIC 606.

**ARABIC 507 / LING 433. Arabic Syntax and Semantics**

ARABIC 202 (AAPTIS 202) or ARABIC 203 (AAPTIS 205) completed with a minimum grade of C- or better. (Prerequisites enforced at registration.) (3). May not be repeated for credit.

**ARABIC 508. Arabic Historical Linguistics and Dialectology**

ARABIC 202 (AAPTIS 202) or ARABIC 203 (AAPTIS 205) (completed with a minimum grade of C or better). (Prerequisites enforced at registration.) (3). May not be repeated for credit.

**ARABIC 509. Arabic Second Language Acquisition**

ARABIC 202 (AAPTIS 202) or ARABIC 203 (AAPTIS 205) completed with a minimum grade of C or better. (Prerequisites enforced at registration.) (3). May not be repeated for credit.

**ARABIC 510. Topics in Arabic Language**

ARABIC 402 or advanced proficiency. Students may not take the same topic twice. (3). May be elected three times for credit. May be elected more than once in the same term.

**ARABIC 513. Arabic-English Translation: Theory and Practice**

Completion of ARABIC 402 or permission of the instructor. (3). May not be repeated for credit. Rackham credit requires additional work.

**ARABIC 600. Reading Modern Arab Authors in Arabic**

ARABIC 402, ARABIC 501, or permission of instructor. (3). May be repeated for a maximum of 6 credits.

**ARABIC 601. Modern Arabic Fiction**

ARABIC 402 or reading knowledge of Arabic. (3). May not be repeated for credit.

**ARABIC 602. Modern Arabic Nonfiction**

ARABIC 401 or reading knowledge of Arabic. (3). May not be repeated for credit.

**ARABIC 604. Modern Arabic Poetry**

ARABIC 402; fluency in Arabic at the advanced level. (3). May be repeated for a maximum of 6 credits.

**ARABIC 610. Topics in Arabic Language**

A minimum of two terms of 500-level Arabic coursework. Students cannot elect the same topic twice. (3). May be elected three times for credit. May be elected more than once in the same term.

## Armenian Studies (ARMENIAN)

**ARMENIAN 101. Western Armenian I**

(4). May not be repeated for credit. No credit granted to those who have completed or are enrolled in ARMENIAN 103 (ARMENIAN 173/AAPTIS 173).

**ARMENIAN 102. Western Armenian II**

ARMENIAN 101 (AAPTIS 171). (4). May not be repeated for credit. No credit granted to those who have completed or are enrolled in ARMENIAN 103(AAPTIS 173).

**ARMENIAN 201. Intermediate Western Armenian I**

ARMENIAN 102 (AAPTIS/ARMENIAN 172) or ARMENIAN 103 (AAPTIS/ARMENIAN 173). (4). May not be repeated for credit.

**ARMENIAN 202. Intermediate Western Armenian II**

ARMENIAN 201 (AAPTIS 271). (4). (Lang Req). May not be repeated for credit.

**ARMENIAN 205. Intermediate Eastern Armenian I**

ARMENIAN 105 (ARMENIAN/AAPTIS 182) or ARMENIAN 107 (ARMENIAN/AAPTIS 183). (4). May not be repeated for credit.

**ARMENIAN 206. Intermediate Eastern Armenian II**

ARMENIAN 205 (AAPTIS 281). (4). (Lang Req). May not be repeated for credit.

**ARMENIAN 389 / HISTORY 389. From Natives to Foreigners: Armenians in Turkey and the Diaspora**

(3). (SS). May not be repeated for credit. HISTORY / ARMENIAN 287.

**ARMENIAN 410. Topics in Armenian Language**

At least two years of coursework in Armenian or permission of instructor. (3). May be elected three times for credit.

**ARMENIAN 499. Independent Study in Armenian**

Consent of department required. (1 - 4). (INDEPENDENT). May be elected three times for credit. May be elected more than once in the same term.

## Hebrew Studies (HEBREW)

**HEBREW 101. Elementary Modern Hebrew I**

(5). May not be repeated for credit. No credit granted to those who have taken or are enrolled in HEBREW 103 (HJCS 110).

**HEBREW 102. Elementary Modern Hebrew II**

HEBREW 101 OR PLACEMENT BY EXAM. (Prerequisites enforced at registration.) (5). May not be repeated for credit. No credit granted to those who have taken or are enrolled in HEBREW 103 (HJCS 110).

**HEBREW 103. Intensive Elementary Modern Hebrew**

(10). May not be repeated for credit. No credit granted to those who have taken or are enrolled in HEBREW 101 (HJCS 101) or HEBREW 102 (HJCS 102).

**HEBREW 201. Intermediate Modern Hebrew I**

HEBREW 102, 103, OR PLACEMENT BY EXAM. (Prerequisites enforced at registration.) (5). May not be repeated for credit. No credit granted to those who have completed or are enrolled in HEBREW 203 (HJCS 210).

**HEBREW 202. Intermediate Modern Hebrew II**

HEBREW 201 or PLACEMENT BY EXAM. (Prerequisites enforced at registration.) (5). (Lang Req). May not be repeated for credit. No credit granted to those who have completed or are enrolled in HEBREW 203 (HJCS 210).

**HEBREW 203. Intensive Intermediate Modern Hebrew**

HEBREW 102 OR 103. (Prerequisites enforced at registration.) (10). (Lang Req). May not be repeated for credit. No credit granted to those who have completed HEBREW 201 (HJCS 201) or HEBREW 202 (HJCS 202).

**HEBREW 301. Advanced Hebrew I**

HEBREW 202, 203 OR PLACEMENT BY EXAM. (Prerequisites enforced at registration.) (3). May not be repeated for credit.

**HEBREW 302. Advanced Hebrew II**

HEBREW 301 or PLACEMENT BY EXAM. (Prerequisites enforced at registration.) (3). May not be repeated for credit.

**HEBREW 404. Ethnicity in Israeli Literature and Culture**

HEBREW 302 (HJCS 302). (3). May not be repeated for credit.

**HEBREW 409. Readings in Modern Hebrew**

Consent of instructor required. Intermediate level proficiency or higher in modern Hebrew. (1 - 2). (INDEPENDENT). May be elected four times for credit. May be elected more than once in the same term.

**HEBREW 410. Topics in Modern Hebrew Language**

Completion of at least HEBREW 301 or advanced Hebrew proficiency. (3). May be elected three times for credit.

**HEBREW 499. Independent Study in Hebrew**

Consent of department required. (1 - 4). (INDEPENDENT). May be elected three times for credit. May be elected more than once in the same term.

**Hebrew and Jewish Cultural Studies (HJCS)****HJCS 290. Humanities Topics in Hebrew, Jewish and Cultural Studies**

(3 - 4). (HU). May be elected twice for credit.

**Near East Studies (NEAREAST)****NEAREAST 200. Introduction to the Middle East**

(4). (HU). May not be repeated for credit. No credit granted to students who have taken NEAREAST 100.

**NEAREAST 201 / HISTORY 242. Madness, Medicine, and Magic in the Middle East**

(3). (HU). May not be repeated for credit.

**NEAREAST 202 / RELIGION 201. Introduction to World Religions: Near Eastern**

(4; 3 in the half-term). (HU). May not be repeated for credit.

**NEAREAST 207 / JUDAIC 277 / RELIGION 277. The Land of Israel/Palestine through the Ages**

(4; 3 in the half-term). (HU). (R&E). May not be repeated for credit.

**NEAREAST 216 / ISLAM 216 / RELIGION 204. Introduction to Islam**

(4; 3 in the half-term). (HU). May not be repeated for credit.

**NEAREAST 218. Armenia: Culture and Ethnicity**

(3). (HU). May not be repeated for credit.

**NEAREAST 219 / GTBOOKS 246 / ISLAM 219. Great Books of the Middle East**

(3). (HU). May not be repeated for credit.

**NEAREAST 220. Religion and Revolutions: A Comparison of the French, Russian, Turkish, and Iranian Cases**

(3). (HU). May not be repeated for credit.

**NEAREAST 221 / SAC 321. Iranian Cinema: Re/Presenting a Nation**

(3). (HU). (R&E). May not be repeated for credit.

**NEAREAST 235 / JUDAIC 235 / RELIGION 235. Introduction to the Tanakh/Old Testament**

(3). (HU). May not be repeated for credit.

**NEAREAST 236 / RELIGION 236. Introduction to the New Testament**

(4; 3 in the half-term). (HU). May not be repeated for credit.

**NEAREAST 238 / JUDAIC 280 / RELIGION 280. The Historical Jesus in Christianity, Judaism, and Islam**

(4; 3 in the half-term). (HU). May not be repeated for credit.

**NEAREAST 239. Mythology of the Ancient Near East**

(3). (HU). May not be repeated for credit.

**NEAREAST 240. Ancient Egypt: Religion and Culture**

(4; 3 in the half-term). (HU). May not be repeated for credit.

**NEAREAST 242 / RELIGION 270. Introduction to Rabbinic Literature**

(3). (HU). May not be repeated for credit. No credit granted to those who have completed or are enrolled in HJCS 470 or JUDAIC 470 or HJCS 570 or ACABS 570 or JUDAIC 570.

**NEAREAST 243. Ancient Egypt and its World**

(4; 3 in the half-term). (HU). May not be repeated for credit.

**NEAREAST 255 / JUDAIC 296 / RELIGION 296. Perspectives on the Holocaust**

(4; 3 in the half-term). (HU). (R&E). May not be repeated for credit.

**NEAREAST 256 / JUDAIC 256. Israeli Literature and Culture**

(3). (HU). May not be repeated for credit.

**NEAREAST 275 / AMCULT 215 / ARABAM 215. Introduction to Arab-American Studies**

(4). (HU). (R&E). May not be repeated for credit.

**NEAREAST 276 / JUDAIC 205. What is Judaism?**

(4). (HU). May not be repeated for credit. No credit granted to those who have completed or are enrolled in JUDAIC 505 or HJCS 576.

**NEAREAST 278 / ALA 238 / EARTH 238 / ENVIRON 238 / HISTORY 238. Zoom: A History of Everything**

(4; 3 - 4 in the half-term). (ID). May not be repeated for credit.

**NEAREAST 279 / JUDAIC 255. Tel Aviv and Jerusalem in Israeli Culture**

(3). (HU). May not be repeated for credit.

**NEAREAST 280 / JUDAIC 250 / SAC 250. Jewish Film: Race, Ethnicity, and Nationality**

(4). (HU). (R&E). May not be repeated for credit.

**NEAREAST 281 / JUDAIC 281 / SLAVIC 281. Jews in the Modern World: Texts, Images, Ideas**

(4). (HU). (R&E). May not be repeated for credit.

**NEAREAST 284 / HISTORY 244 / JUDAIC 244 / MENAS 244. The History of the Arab-Israeli Conflict**

(4; 3 in the half-term). (SS). (R&E). May not be repeated for credit.

**NEAREAST 285 / HISTART 285 / ISLAM 285. Visual Culture Islam**

(4). (HU). May not be repeated for credit.

**NEAREAST 287 / HISTORY 290 / JUDAIC 290. Jews and Muslims**

(3). (HU). May not be repeated for credit.

**NEAREAST 291. Humanities Topics in Near Eastern Studies**

(3). (HU). May be elected twice for credit.

**NEAREAST 295. First Year Seminar in Near Eastern Studies**

Enrollment restricted to first-year students, including those with sophomore standing. (3). (HU). May not be repeated for credit.

**NEAREAST 315 / ISLAM 315. Introduction to Arab Culture**

(4). (HU). (R&E). May not be repeated for credit.

**NEAREAST 317 / ISLAM 317. Turkey in the 20th century: Modernity and the Politics of Culture**

(3). (ID). May not be repeated for credit.

**NEAREAST 319 / HISTORY 306 / ISLAM 319. History of the Ottoman Empire: The "Classical Age", (ca. 1300-1600)**

Not available to students who have completed AAPTIS 291 (#16) or HISTORY 303 (#10) when taught with the topic "Ten Sultans, One

Empire: The Ottoman Classical Age". (Prerequisites enforced at registration.) (3). (HU). May not be repeated for credit.

**NEAREAST 320 / HISTORY 307 / ISLAM 320. History of the Ottoman Empire: The "Post-Classical Age", (ca. 1600-1922)**

Not available to students who have completed AAPTIS 291 (#17) or HISTORY 303 (#13) when taught with the topic "The Ottoman Empire in the 'Post Classical Age'". (Prerequisites enforced at registration.) (3). (HU). May not be repeated for credit.

**NEAREAST 321. Jihad in History**

(3). (HU). May not be repeated for credit.

**NEAREAST 322 / RELIGION 363. The Qur'an and Its Interpretations**

No prior knowledge of Islam is necessary, although some knowledge of the Bible would be helpful. (3). (HU). May not be repeated for credit.

**NEAREAST 323 / ISLAM 323. The Prophet Muhammad in Islam**

(3). (HU). May not be repeated for credit.

**NEAREAST 324. Persian Literature in Translation**

(3). May not be repeated for credit.

**NEAREAST 325. Introduction to Arab Literature in Translation**

(3). (HU). May not be repeated for credit.

**NEAREAST 326. The Arab-Israeli Conflict in Middle Eastern Literature and Film**

(3). (HU). May not be repeated for credit.

**NEAREAST 327 / ISLAM 327 / MEMS 327. Shahnameh: Iranian Myth, Epic, and History**

(3). (HU). May not be repeated for credit.

**NEAREAST 330 / ISLAM 330 / RCHUMS 330 / RELIGION 330. The Arabian Nights**

(3). (HU). May not be repeated for credit.

**NEAREAST 335 / JUDAIC 335 / RELIGION 359. History and Religion of Second Temple Judaism**

(3). (HU). May not be repeated for credit.

**NEAREAST 336 / RELIGION 350. Early Christianity, 50-650 CE**

(4; 3 in the half-term). (HU). May not be repeated for credit.

**NEAREAST 337 / ANTHRARC 384. Ancient Mesopotamia: History and Culture**

Sophomore standing. (4; 3 in the half-term). (ID). May not be repeated for credit.

**NEAREAST 338 / ANTHRARC 381 / HISTART 382. Introduction to Egyptian Archaeology**

(4; 3 in the half-term). (HU). May not be repeated for credit.

**NEAREAST 339 / HISTORY 259 / JUDAIC 339 / RELIGION 358. Israel Before the Exile (587 BCE): Its History & Religion**  
(4; 3 in the half-term). (HU). May not be repeated for credit.

**NEAREAST 340 / ASIAN 340 / HISTORY 340 / MENAS 340 / REEES 340. From Genghis Khan to the Taliban: Modern Central Asia**  
(4; 3 - 4 in the half-term). (SS). (R&E). May not be repeated for credit.

**NEAREAST 354 / CLCIV 354 / RELIGION 353. Ancient Jerusalem: Archaeology, Religion, and Culture**  
(3). (ID). May not be repeated for credit.

**NEAREAST 355 / CLARCH 327 / CLCIV 327 / RELIGION 326. Jews in the Roman Mediterranean: Archaeology, Religion, and Culture**  
(3). (ID). May not be repeated for credit.

**NEAREAST 375 / ASIAN 324 / HISTORY 325 / ISLAM 325 / MEMS 325 / RELIGION 325. The History of Islam in South Asia**  
(4). (HU). (R&E). May not be repeated for credit.

**NEAREAST 376 / HISTORY 394 / ISLAM 394. History of the Turkish Republic**  
(3). (HU). May not be repeated for credit.

**NEAREAST 379 / MENAS 334. Internships in Turkey: Pre-Departure Orientation**  
(1 - 3). May not be repeated for credit.

**NEAREAST 380 / AMCULT 320 / JUDAIC 320. The Jewish Graphic Novel**  
(3). (HU). May not be repeated for credit.

**NEAREAST 383 / HISTART 323 / HISTORY 350 / JUDAIC 323 / RELIGION 324. History of Jewish Visual Culture: From Ancient Mosaics to Jew-Hop Videos**  
(3). (HU). May not be repeated for credit.

**NEAREAST 386 / JUDAIC 360. A Global History of the Jews of Spain**  
JUDAIC 205. (3). (HU). May not be repeated for credit.

**NEAREAST 390. Topics in Near Eastern Studies**  
At least one previous course in Near Eastern studies. (3). May be elected twice for credit. May be elected more than once in the same term.

**NEAREAST 391. Humanities Topics in Near Eastern Studies**  
At least one previous course in Near Eastern studies. Students should not elect the same topic twice. (3). (HU). May be elected twice for credit.

**NEAREAST 395. Study Abroad in the Near East**  
Consent of instructor required. (1 - 3). (EXPERIENTIAL). May be elected twice for credit.

**NEAREAST 396. Internship in Near Eastern Studies**  
Consent of department required. (1). (EXPERIENTIAL). (INDEPENDENT). May be elected twice for credit.

**NEAREAST 401. Politics of Heritage: Culture and History in the Middle East**  
At least one prior course in Near Eastern studies. (3). May not be repeated for credit.

**NEAREAST 414. Nationalities in the Ottoman Empire: The Rise and Demise of the Western Armenians**  
(3). May not be repeated for credit.

**NEAREAST 416. The Sultan and His Subjects: Society and Culture in the Ottoman Empire**  
(3). May not be repeated for credit.

**NEAREAST 417 / HISTORY 442. The First Millennium of the Islamic Near East**  
Junior standing. (3). May not be repeated for credit.

**NEAREAST 419 / HISTORY 537. The Near East in the Period of the Crusades, 945-1258**  
Junior standing. (3). (R&E). May not be repeated for credit.

**NEAREAST 421 / RELIGION 465. Islamic Mysticism: Sufism in Time and Space**  
(3). May not be repeated for credit.

**NEAREAST 422 / RELIGION 467. Shi'ism: The History of Messianism and the Pursuit of Justice in Islamdom**  
Junior standing or permission of instructor. (3). May not be repeated for credit.

**NEAREAST 423 / ISLAM 423. Islamic Law**  
NEAREAST 216. (3). May not be repeated for credit.

**NEAREAST 424 / ISLAM 424 / RELIGION 461. Islamic Intellectual History**  
Taught in English. (3). May not be repeated for credit.

**NEAREAST 426. An Introduction to Modern Armenian Literature**  
(3). May not be repeated for credit.

**NEAREAST 429. Topics in Modern Arabic Literature in Translation**  
(3). May be elected three times for credit.

**NEAREAST 430 / ISLAM 430. History of Arabic Literature in English**  
(3). May not be repeated for credit.

**NEAREAST 432 / HISTORY 429 / RELIGION 496 / WOMENSTD 471. Gender and Sexuality in Pre-Modern Islam**  
Students should preferably have had one course in Islamic Studies. (3). May not be repeated for credit.

**NEAREAST 433 / ISLAM 433 / WOMENSTD 496. Gender and Representation in the Modern Middle East**

(3). May not be repeated for credit.

**NEAREAST 437 / CLCIV 483 / RELIGION 488. Christianity and Hellenistic Civilizations**

(3). May not be repeated for credit.

**NEAREAST 438. Exhibiting Ancient Egypt: Past Culture in the Modern Museum**

(3). May not be repeated for credit.

**NEAREAST 441 / WOMENSTD 487. Gender and Society in Ancient Egypt**

Some familiarity with Egypt is helpful. (3). May not be repeated for credit.

**NEAREAST 442 / JUDAIC 470. Reading the Rabbis**

NESLANG 202 or HEBREW 202. (4). May not be repeated for credit. No credit granted to those who have completed or are enrolled in NEAREAST 242 (ACABS 270/HJCS 270/JUDAIC 270).

**NEAREAST 443 / RELIGION 442. Mythology and Literature of Ancient Mesopotamia**

(3). May not be repeated for credit.

**NEAREAST 445. Selected Topics in Ancient Egyptian History and Culture**

(3). May be repeated for a maximum of 6 credits.

**NEAREAST 455 / JUDAIC 478 / RELIGION 478. Modern Jewish Thought**

(3). May not be repeated for credit.

**NEAREAST 456 / JUDAIC 468 / RELIGION 469. Jewish Mysticism**

(3). May not be repeated for credit.

**NEAREAST 476 / JUDAIC 467 / RELIGION 471. Seminar: Topics in the Study of Judaism**

(3). May be repeated for a maximum of 9 credits. May be elected more than once in the same term.

**NEAREAST 483 / MENAS 493. Comparative Perspectives of the Middle East and North Africa**

(1). May be repeated for a maximum of 12 credits. May be elected more than once in the same term. Rackham credit requires additional work.

**NEAREAST 487 / HISTORY 443 / ISLAM 443. Modern Middle East History**

(4). May not be repeated for credit.

**NEAREAST 490. Topics in Near Eastern Studies**

(3). May be elected twice for credit. May be elected more than once in

the same term.

**NEAREAST 492. Mini-course in Near Eastern Studies**

At least one prior course in Near Eastern studies and/or related to the topic of the course. (1 - 3). May be elected twice for credit.

**NEAREAST 498. Senior Honors Thesis**

Consent of department required. (1 - 6). (INDEPENDENT). May be elected twice for credit.

**NEAREAST 499. Independent Study in Near Eastern Studies**

Consent of department required. (1 - 4). (INDEPENDENT). May be elected four times for credit. May be elected more than once in the same term.

**NEAREAST 517. Classical Persian Texts**

PERSIAN 202. (3). May be elected four times for credit.

**NEAREAST 518. Persianate History Through Political and Cultural Texts**

PERSIAN 202 or advanced reading knowledge of Persian. (3). May be repeated for a maximum of 9 credits.

**NEAREAST 590. Topics in Near Eastern Studies**

Upper-level undergraduates or graduate students with previous coursework in Near Eastern studies. (3). May be elected three times for credit. May be elected more than once in the same term.

## Near East Studies Languages (NESLANG)

**NESLANG 101 / JUDAIC 120 / RELIGION 110. Elementary Classical Hebrew I**

(3). May not be repeated for credit.

**NESLANG 102 / JUDAIC 121 / RELIGION 111. Elementary Classical Hebrew II**

NESLANG 101 (ACABS 101). (3). May not be repeated for credit.

**NESLANG 201 / JUDAIC 220 / RELIGION 210. Intermediate Classical Hebrew I**

NESLANG 102 (ACABS 102). (3). May not be repeated for credit.

**NESLANG 202 / JUDAIC 221 / RELIGION 211. Intermediate Classical Hebrew II**

NESLANG 201 (ACABS 201). (3). (Lang Req). May not be repeated for credit.

**NESLANG 307 / GREEK 307. The Synoptic Gospels: Matthew, Mark and Luke**

GREEK 101 and 102; and permission of instructor. (4). May not be repeated for credit.

**NESLANG 308 / GREEK 308. The Acts of the Apostles**

GREEK 101 and 102; and permission of instructor. (4). (Lang Req). May



*not be repeated for credit.*

**NESLANG 410. Topics in Near Eastern Language**

*Students should not enroll in the same topic twice. (3). May be elected four times for credit.*

**NESLANG 415. Elementary Hittite**

*(3). May not be repeated for credit.*

**NESLANG 420. Introduction to Akkadian**

*(3). May not be repeated for credit.*

**NESLANG 430. Introduction to Middle Egyptian I**

*(3). May not be repeated for credit.*

**NESLANG 431. Introduction to Middle Egyptian II**

*NESLANG 430. (Prerequisites enforced at registration.) (3). May not be repeated for credit.*

**NESLANG 435. Introduction to Sumerian**

*(3). May not be repeated for credit.*

**NESLANG 440. Coptic I**

*(3). May not be repeated for credit.*

**NESLANG 441. Coptic II**

*NESLANG 440 or permission of instructor. (3). May not be repeated for credit.*

**NESLANG 450. Introductory Central Asian Language I**

*(4 - 5). May be elected three times for credit. May be elected more than once in the same term.*

**NESLANG 451. Introductory Central Asian Language II**

*NESLANG 450 (or AAPTIS 119 or ASIANLAN 119), with a minimum grade of C- or better. (Prerequisites enforced at registration.) (4 - 5). May be elected three times for credit. May be elected more than once in the same term. May not repeat the same language at the same level.*

**NESLANG 460. Introduction to Demotic Egyptian**

*(3). May not be repeated for credit.*

**NESLANG 465. Syriac I**

*(3). May not be repeated for credit.*

**NESLANG 470 / GREEK 473. Advanced Koine**

*Two years of Greek, one term of New Testament Greek (300 level or equivalent). (3). May not be repeated for credit.*

**NESLANG 480. Intermediate Central Asian Language I**

*NESLANG 450 (or AAPTIS 120 or ASIANLAN 120), with a minimum grade of C- or better. (Prerequisites enforced at registration.) (3 - 5). May be elected three times for credit. May be elected more than once*

*in the same term. Students may not repeat the same language at the same level.*

**NESLANG 481. Intermediate Central Asian Language II**

*NESLANG 480 (completed with a minimum grade of C- or better). (Prerequisites enforced at registration.) (3 - 5). (Lang Req). May be elected three times for credit. May be elected more than once in the same term. Students may not repeat the same language at the same level.*

**NESLANG 499. Independent Study in Near Eastern Language**

*Consent of department required. (1 - 4). (INDEPENDENT). May be elected three times for credit. May be elected more than once in the same term.*

**NESLANG 513. Readings in Akkadian**

*NESLANG 420. (Prerequisites enforced at registration.) (3). May not be repeated for credit.*

**NESLANG 514. Akkadian Literary Texts**

*NESLANG 513 (ACABS 412). (3). May be elected nine times for a maximum of 12 credits.*

**NESLANG 531. Advanced Middle Egyptian II**

*NESLANG 530. (Prerequisites enforced at registration.) (3). (Lang Req). May not be repeated for credit.*

**NESLANG 537. Readings in Sumerian**

*NESLANG 435 (ACABS 511). (3). May be repeated for a maximum of 12 credits.*

**Persian (PERSIAN)**

**PERSIAN 101. Elementary Persian I**

*(4). May not be repeated for credit. No credit granted to those who have completed or are enrolled in PERSIAN 103 (AAPTIS 143).*

**PERSIAN 102. Elementary Persian II**

*PERSIAN 101 (AAPTIS 141). (4). May not be repeated for credit. No credit granted to those who have completed or are enrolled in PERSIAN 103 (AAPTIS 143).*

**PERSIAN 201. Intermediate Persian I**

*PERSIAN 102 (AAPTIS 142) or PERSIAN 103 (AAPTIS 143). (4). May not be repeated for credit.*

**PERSIAN 202. Intermediate Persian II**

*PERSIAN 201 (AAPTIS 241). (4). (Lang Req). May not be repeated for credit.*

**PERSIAN 404. Modern Persian Poetry**

*At least two years of Persian or its equivalent are required to enroll. (3). May not be repeated for credit.*

**PERSIAN 409. Readings in Persian**

*Consent of instructor required. (1 - 2). (INDEPENDENT). May be elected four times for credit. May be elected more than once in the same term.*

**PERSIAN 410. Topics in Persian Language**

*Advanced proficiency in Persian or permission of instructor. (3). May be elected three times for credit.*

**PERSIAN 499. Independent Study in Persian**

*Consent of department required. (1 - 4). (INDEPENDENT). May be elected three times for credit. May be elected more than once in the same term.*

**PERSIAN 504. Modern Persian Fiction**

*PERSIAN 202 (AAPTIS 242). (3). May not be repeated for credit.*

**PERSIAN 505. Modern Persian Nonfiction**

*PERSIAN 202 (AAPTIS 242). Taught in Persian. (3). May not be repeated for credit.*

## Turkish Studies (TURKISH)

**TURKISH 101. Elementary Turkish I**

*(4). May not be repeated for credit. No credit granted to those who have completed or are enrolled in TURKISH 103 (AAPTIS 155).*

**TURKISH 102. Elementary Turkish II**

*TURKISH 101 (AAPTIS 151) or equivalent. (4). May not be repeated for credit. No credit granted to those who have completed or are enrolled in TURKISH 103 (AAPTIS 155).*

**TURKISH 201. Intermediate Turkish I**

*TURKISH 102 (AAPTIS 152) or TURKISH 103 (AAPTIS 155). (4). May not be repeated for credit. No credit granted to those who have completed or are enrolled in TURKISH 203 (AAPTIS 255).*

**TURKISH 202. Intermediate Turkish II**

*TURKISH 201 (AAPTIS 251). (4). (Lang Req). May not be repeated for credit. No credit granted to those who have completed or are enrolled in TURKISH 203 (AAPTIS 255).*

**TURKISH 410. Topics in Turkish Language**

*Advanced Turkish proficiency or permission of instructor. (3). May be elected three times for credit.*

**TURKISH 499. Independent Study in Turkish**

*Consent of department required. (1 - 4). (INDEPENDENT). May be elected three times for credit. May be elected more than once in the same term.*

**TURKISH 504. Modern Turkish Readings and Communication**

*TURKISH 202 (AAPTIS 252) or TURKISH 203 (AAPTIS 255). (3). May be elected three times for credit.*

## Studies

### Organizational Studies (ORGSTUDY)

**ORGSTUDY 101. Introduction to Leadership in Teams**

*(3). May not be repeated for credit.*

**ORGSTUDY 201. Leadership and Collaboration**

*(4). (SS). May not be repeated for credit. May not be counted toward a concentration in Organizational Studies.*

**ORGSTUDY 203 / ENVIRON 203. Activism**

*(3). (SS). May not be repeated for credit.*

**ORGSTUDY 204. Nonprofits**

*(3). May not be repeated for credit.*

**ORGSTUDY 208 / ENVIRON 208. Business and the Natural Environment**

*(3). (SS). May not be repeated for credit.*

**ORGSTUDY 299. Undergraduate Internship**

*Consent of department required. Declared Organizational Studies concentrators. (1). (EXPERIENTIAL). May be repeated for a maximum of 2 credits. May not be used to satisfy requirements for the organizational studies concentration. Internship credit may not be used to satisfy electives for the concentration. Offered mandatory credit/no credit.*

**ORGSTUDY 305. Inside Organizations**

*Introductory Psychology (PSYCH 111, 112, 114, or 115), introductory sociology (SOC 100, 101, 102, or 195), and ECON 101. (3). May not be repeated for credit.*

**ORGSTUDY 310. Formal Organizations and Environments**

*Introductory Psychology (PSYCH 111, 112, 114, or 115), introductory sociology (SOC 100, 101, 102, or 195), and ECON 101. (3). May not be repeated for credit.*

**ORGSTUDY 395. Current Issues in Organizational Studies**

*Introductory psychology and sociology, and ECON 101. (1 - 2). May be elected three times for credit. May be elected more than once in the same term.*

**ORGSTUDY 405. Negotiation and Dispute Resolution**

*Consent of department required. OS Concentrator. (3). May not be repeated for credit.*

**ORGSTUDY 410. Advanced Research Methods in Organizational Studies**

*One of the following: STATS 250 or SOC 210 or ECON 251 (may be elected concurrently). Restricted to Organizational Studies seniors. (Prerequisites enforced at registration.) (4). May not be repeated for credit.*

## Courses in LSA Organizational

**ORGSTUDY 415. Networking**

Consent of department required. Organizational Studies or Political Science Concentrator. (3). May not be repeated for credit.

**ORGSTUDY 418 / ENVIRON 418. Leadership and Environmental Stewardship in Organizations**

(3). May not be repeated for credit.

**ORGSTUDY 420. Nonprofit Organizations**

Consent of department required. Organizational studies concentrator. (3). May not be repeated for credit.

**ORGSTUDY 425. Interest Group Politics**

(3). May not be repeated for credit.

**ORGSTUDY 430. Corporate Social Responsibility: Emergence, Practices, and Critiques**

No credit granted for students who have taken ORGSTUDY 495 with the topic (#4) Corporate Social Responsibility. (Prerequisites enforced at registration.) Organizational Studies Students. (3). May not be repeated for credit.

**ORGSTUDY 490. Advanced Research Team**

Consent of instructor required. Enrollment in either ORGSTUDY 305 or 310; and a course in STATS. (3 - 4). (EXPERIENTIAL). May be elected three times for credit. May be elected more than once in the same term.

**ORGSTUDY 495. Special Topics in Organizational Studies**

Restricted to Organizational Studies Majors. (3). May be elected four times for credit. May be elected more than once in the same term.

**ORGSTUDY 497. Senior Honors Research I**

Consent of department required. Must be accepted into the OS Honors program by review of proposal. (3 - 4). (INDEPENDENT). May not be repeated for credit. F.

**ORGSTUDY 498. Senior Honors Research II**

Consent of department required. Must be accepted into the OS Honors program by review of proposal. (3 - 4). (INDEPENDENT). May not be repeated for credit. W.

**ORGSTUDY 499. Independent Study**

Consent of instructor required. Restricted to Organizational Studies concentrators who have completed the core course requirements. (1 - 4). (INDEPENDENT). May be repeated for a maximum of 8 credits. No more than six credits of independent study credit may count toward an Organizational Studies concentration. F, W.

## Courses in LSA Philosophy

### Philosophy (PHIL)

**PHIL 151. Philosophical Dimensions of Personal Decisions**

(3; 2 in the half-term). (HU). May not be repeated for credit. Students

are strongly advised not to take more than two Philosophy Introductions.

**PHIL 152. Philosophy of Human Nature**

(3; 2 in the half-term). (HU). May not be repeated for credit. Students are strongly advised not to take more than two Philosophy Introductions.

**PHIL 153. Philosophy and the Arts**

(3; 2 in the half-term). (HU). May not be repeated for credit. Students are strongly advised not to take more than two Philosophy Introductions.

**PHIL 154. Science Fiction and Philosophy**

(3; 2 in the half-term). (HU). May not be repeated for credit.

**PHIL 155. The Nature of Science**

(3; 2 in the half-term). (HU). May not be repeated for credit.

**PHIL 157 / CLCIV 157. Introduction to Ancient Philosophy**

(3). (HU). May not be repeated for credit.

**PHIL 158. Philosophy and Narrative**

(3; 2 in the half-term). (HU). May not be repeated for credit. Students are strongly advised not to take more than two Philosophy Introductions.

**PHIL 160. Moral Principles and Problems**

(4; 3 in the half-term). (HU). May not be repeated for credit.

**PHIL 162. The University of Michigan: A Moral Institution?**

(4; 3 in the half-term). (HU). May not be repeated for credit.

**PHIL 180. Introductory Logic**

(3; 2 in the half-term). (QR/1). May not be repeated for credit. Credit is granted for only one of PHIL 180 or 201. F, W, Su.

**PHIL 181. Philosophical Issues: An Introduction**

(3; 2 in the half-term). (HU). May not be repeated for credit. No credit granted to those who have completed or are enrolled in PHIL 182, 202, 231, 232, 234, or 297. F, W, Sp, Su.

**PHIL 183. Critical Reasoning**

(3). (HU). May not be repeated for credit.

**PHIL 196. First Year Seminar**

Enrollment restricted to first-year students, including those with sophomore standing. (3). (HU). May not be repeated for credit.

**PHIL 202. Introduction to Philosophy**

(3; 2 in the half-term). (HU). May not be repeated for credit. No credit granted to those who have completed or are enrolled in PHIL 181, 182, 231, 232, 234, or 297.

**PHIL 210. Experimental Philosophy**

(3). (ID). May not be repeated for credit.

**PHIL 224. Global Justice**

(4; 2 in the half-term). (ID). (R&E). May not be repeated for credit.

**PHIL 230 / ASIAN 230 / RELIGION 230. Introduction to Buddhism**

(4). (HU). May not be repeated for credit.

**PHIL 232. Problems of Philosophy**

(4; 2 in the half-term). (HU). May not be repeated for credit. No credit granted to those who have completed or are enrolled in PHIL 181, 182, 202, 231, 234, or 297.

**PHIL 240 / ENVIRON 240. Environmental Ethics: Philosophical Underpinnings**

(3; 2 in the half-term). (HU). May not be repeated for credit.

**PHIL 262 / RELIGION 262. Introduction to the Philosophy of Religion**

(4; 3 in the half-term). (HU). May not be repeated for credit.

**PHIL 263 / ASIAN 263. Introduction to Chinese Philosophy**

(3). (HU). May not be repeated for credit.

**PHIL 286. Second Year Seminar in Philosophy**

(3; 2 in the half-term). (HU). May not be repeated for credit.

**PHIL 294. Honors Core in Philosophy**

Consent of department required. (4). (HU). May be elected twice for credit. May be elected more than once in the same term.

**PHIL 295. Honors Core Writing in Philosophy**

Consent of department required. (4). (HU). May be elected twice for credit. May be elected more than once in the same term.

**PHIL 296. Honors Introduction to Logic**

Honors students or permission of instructor. (3; 2 in the half-term). (MSA). (BS). (QR/1). May not be repeated for credit. No credit granted to those who have completed or are enrolled in PHIL 303 or 414.

**PHIL 297. Honors Introduction to Philosophy**

Honors students or permission of instructor. (3; 2 in the half-term). (HU). May not be repeated for credit. No credit granted to those who have completed or are enrolled in PHIL 181, 182, 202, 231, 232, or 234.

**PHIL 303. Introduction to Symbolic Logic**

(4; 3 - 4 in the half-term). (MSA). (BS). (QR/1). May not be repeated for credit. No credit granted to those who have completed or are enrolled in PHIL 296 or 414. F, W, Sp.

**PHIL 305. Introduction to Formal Philosophical Methods**

(4; 3 in the half-term). (MSA). (BS). (QR/1). May not be repeated for credit.

**PHIL 320. The World-View of Modern Science**

(4; 3 in the half-term). (HU). May not be repeated for credit.

**PHIL 322. The Methods of Science**

(3; 2 in the half-term). (ID). May not be repeated for credit.

**PHIL 331 / ASIAN 331 / RELIGION 331. Introduction to Indian Philosophy**

One introductory course on Hinduism or Buddhism. (3). May not be repeated for credit.

**PHIL 334. Post-Biblical Jewish Philosophy**

(3; 2 in the half-term). May not be repeated for credit.

**PHIL 340. Minds and Machines**

(4; 2 in the half-term). (HU). May not be repeated for credit.

**PHIL 345. Language and Mind**

One philosophy course with at least a C-. (Prerequisites enforced at registration.) (4; 3 in the half-term). (HU). May not be repeated for credit.

**PHIL 350. Real World Ethics: Exploring Moral Problems Beyond the Classroom**

Consent of department required. (4). (HU). May not be repeated for credit.

**PHIL 351. Real World Ethics II**

PHIL 350. (Prerequisites enforced at registration.) (2 in the half-term). (HU). May not be repeated for credit.

**PHIL 353. The Rights And Wrongs Of Business Practices**

(4; 3 in the half-term). (HU). May not be repeated for credit.

**PHIL 355. Contemporary Moral Problems**

(4; 3 in the half-term). (HU). (R&E). May not be repeated for credit. No credit granted to those who have completed or are enrolled in PHIL 455.

**PHIL 356. Issues in Bioethics**

No prerequisites; one philosophy introduction is recommended. (4; 3 in the half-term). (HU). May not be repeated for credit.

**PHIL 359. Law and Philosophy**

(4; 2 in the half-term). (HU). (R&E). May not be repeated for credit.

**PHIL 361. Ethics**

One philosophy course with at least a C-. (Prerequisites enforced at registration.) (4; 3 in the half-term). (HU). May not be repeated for credit. F.

**PHIL 366. Introduction to Political Philosophy**

One Philosophy course or PPE 300; with at least C-. (Prerequisites enforced at registration.) (4; 2 in the half-term). (HU). May not be

repeated for credit.

**PHIL 367. 19th Century Social and Political Philosophy**

One philosophy course, PPE 300, or POLSCI 101 with at least a C-. (Prerequisites enforced at registration.) (4; 3 in the half-term). (HU). May not be repeated for credit.

**PHIL 371. Phenomenology and Existential Philosophy**

One philosophy course (completed with a minimum grade of C- or better). (Prerequisites enforced at registration.) (3; 2 in the half-term). (HU). May not be repeated for credit.

**PHIL 375. Nietzsche's Philosophical Thought**

(3; 2 in the half-term). (HU). May not be repeated for credit.

**PHIL 376 / ENVIRON 376. Environmental Ethics-Living Well with Nature**

(3). (HU). May not be repeated for credit.

**PHIL 381. Science and Objectivity**

One Philosophy course completed with a minimum grade of C- or better. (Prerequisites enforced at registration.) (4; 3 in the half-term). (HU). May not be repeated for credit.

**PHIL 383. Knowledge and Reality**

One Philosophy course (completed with a minimum grade of C- or better). (Prerequisites enforced at registration.) (4; 3 in the half-term). (HU). May not be repeated for credit.

**PHIL 384. Applied Epistemology: Race, Ethnicity and Knowledge**

(4; 3 in the half-term). (HU). (R&E). May not be repeated for credit.

**PHIL 388 / CLCIV 388. History of Philosophy: Ancient**

One philosophy course with a grade of at least a C-. (Prerequisites enforced at registration.) Knowledge of Greek or Latin is not required. (4; 2 in the half-term). (HU). May not be repeated for credit. Taught in English. F.

**PHIL 389. History of Philosophy: Seventeenth and Eighteenth Centuries**

One philosophy course with at least a C-. (Prerequisites enforced at registration.) (4; 2 in the half-term). (HU). May not be repeated for credit. W.

**PHIL 397. Topics in Philosophy**

Consent of department required. Permission of concentration advisor and instructor. (1 - 4; 2 in the half-term). May be elected twice for credit.

**PHIL 399. Independent Study**

Consent of instructor required. One philosophy introduction and permission of instructor. (1 - 4). (INDEPENDENT). May be elected twice for credit. F, W, Sp.

**PHIL 401. Undergraduate Honors Seminar**

Open to Honors concentrators in Philosophy and others by permission of instructor. (3; 2 in the half-term). May not be repeated for credit. Continuing Course. Y grade can be reported at end of the first-term to indicate work in progress. At the end of the second term, the final grade is posted for both term's elections. F.

**PHIL 402. Undergraduate Seminar in Philosophy**

Two 300-level Philosophy courses completed with a C- or better. (Prerequisites enforced at registration.) (3; 2 in the half-term). May not be repeated for credit.

**PHIL 405. Philosophy of Plato**

One philosophy course (completed with a minimum grade of C- or better). (Prerequisites enforced at registration.) (3; 2 in the half-term). May not be repeated for credit.

**PHIL 406. Aristotle**

One Philosophy course (completed with a minimum grade of C- or better); OR graduate standing. (Prerequisites enforced at registration.) (3; 2 in the half-term). May not be repeated for credit.

**PHIL 408 / ECON 408. Philosophy and Economics**

ECON 401 (completed with a minimum grade of C- or better). (Prerequisites enforced at registration.) (3). May not be repeated for credit. Rackham credit requires additional work.

**PHIL 413. Formal Philosophical Methods**

Satisfaction of QR/1 with either 2nd semester calculus, an advanced course in logic, a course in statistics above STATS 265, or a course in economics. (3; 2 in the half-term). (BS). May not be repeated for credit.

**PHIL 414. Mathematical Logic**

One PHIL or MATH course. (3; 2 in the half-term). (BS). (QR/1). May not be repeated for credit. F.

**PHIL 416. Modal Logic**

PHIL 414 or permission of instructor. (3; 2 in the half-term). (BS). May not be repeated for credit.

**PHIL 423. Problems of Space and Time**

One logic introduction and either one other philosophy course or 12 credits of science. (3; 2 in the half-term). (BS). May not be repeated for credit.

**PHIL 424. Philosophy of Quantum Mechanics**

One course is Philosophy and one in Mathematics or Physics. (3; 2 in the half-term). (BS). May not be repeated for credit.

**PHIL 425. Philosophy of Biology**

One course in Philosophy or Biology. (3). (BS). May not be repeated for credit.

**PHIL 426 / LING 426. Philosophy and Linguistic Theory**

One philosophy introduction, one logic introduction, or concentration in Linguistics. (3; 2 in the half-term). May not be repeated for credit.

**PHIL 429. Ethical Analysis**

PHIL 361, 366, 367 or PPE 300, (completed with a minimum grade of C- or better); OR Graduate standing. (Prerequisites enforced at registration.) (3; 2 in the half-term). May not be repeated for credit.

**PHIL 430. Topics in Ethics**

PHIL 361, 366, 367 or PPE 300 (completed with a minimum grade of C- or better); or Graduate standing. (Prerequisites enforced at registration.) (3; 2 in the half-term). May be repeated for a maximum of 6 credits.

**PHIL 439. Aesthetics**

One philosophy introduction. (3; 2 in the half-term). May not be repeated for credit.

**PHIL 440. Philosophy of Film**

One of the following: a philosophy course at the 300-level or above, one course in History of Art, one course in Screen Arts and Cultures, or permission of instructor. (3; 2 in the half-term). May not be repeated for credit.

**PHIL 442. Topics in Political Philosophy**

PHIL 361, 366 or 367, (completed with a minimum grade of C- or better); OR Graduate standing. (Prerequisites enforced at registration.) (3; 2 in the half-term). May not be repeated for credit.

**PHIL 443. Foundations of Rational Choice Theory**

Two courses in Philosophy, Economics, or Psychology (or some combination thereof) and satisfaction of the Quantitative Reasoning requirement; or permission of instructor. (4; 3 in the half-term). May not be repeated for credit.

**PHIL 444. Groups and Choices**

(4). May not be repeated for credit. Rackham credit requires additional work.

**PHIL 446. Social and Political Philosophy of Language**

One philosophy course, graduate standing, or permission of the instructor. (Prerequisites enforced at registration.) (3). May not be repeated for credit.

**PHIL 458. Philosophy of Kant**

PHIL 389 (completed with a minimum grade of C- or better); OR Graduate standing. (Prerequisites enforced at registration.) (3; 2 in the half-term). May not be repeated for credit.

**PHIL 460. Medieval Philosophy**

One philosophy introduction. (3; 2 in the half-term). May not be repeated for credit.

**PHIL 463. Topics in the History of Philosophy**

One Philosophy course (completed with a minimum grade of C- or better). (Prerequisites enforced at registration.) PHIL 388 or 389, or permission of instructor. (3). May not be repeated for credit.

**PHIL 464. The Scientific Revolution**

One course in History or Philosophy completed with a minimum grade of C- or better. (Prerequisites enforced at registration.) PHIL 388 or 389. (3; 2 in the half-term). May not be repeated for credit.

**PHIL 467. The Enlightenment and Skepticism**

One Philosophy course or graduate standing. (Prerequisites enforced at registration.) (3). May not be repeated for credit.

**PHIL 475. Topics in 20th Century Philosophy**

One introductory Philosophy course and one 300-level Philosophy course or permission of the instructor. Consent of instructor required. (Prerequisites enforced at registration.) (3; 2 - 3 in the half-term). May not be repeated for credit.

**PHIL 480. Philosophy of Religion**

One introduction to Philosophy. (3; 2 in the half-term). May not be repeated for credit.

**PHIL 481. Metaphysics**

PHIL 345, 381, or 383. (3; 2 in the half-term). May not be repeated for credit.

**PHIL 482. Philosophy of Mind**

PHIL 345, 381, or 383. (3; 2 in the half-term). May not be repeated for credit.

**PHIL 485. Philosophy of Action**

Two courses in Philosophy or permission of instructor. (3). May not be repeated for credit.

**PHIL 487. Wittgenstein**

One philosophy introduction and another course in Philosophy or permission of instructor. (3; 2 in the half-term). May not be repeated for credit.

**PHIL 498. Senior Honors in Philosophy**

Consent of instructor required. Permission of department. (3; 2 in the half-term). (INDEPENDENT). May not be repeated for credit. Continuing Course. Y grade can be reported at end of the first-term to indicate work in progress. At the end of the second term of PHIL 499, the final grade is posted for both term's elections. W, Su.

**PHIL 499. Senior Honors in Philosophy**

Consent of instructor required. Permission of department. (3; 2 in the half-term). (INDEPENDENT). May not be repeated for credit.

**Philosophy, Politics, and Economics (PPE)****PPE 300. Introduction to Political Economy**

Two introductory courses chosen from at least two disciplines: Philosophy, Political Science, and Economics. (4; 2 in the half-term). (ID). May not be repeated for credit.

**PPE 400. Seminar in Political Economy**

*PPE 300 with at least a C-. (Prerequisites enforced at registration.) Completion of distribution requirements for PPE concentration. (3; 2 in the half-term). May not be repeated for credit.*

**PPE 401. PPE Undergraduate Honors Seminar**

*PPE Honors standing or permission of instructor. (3). May not be repeated for credit. Continuing Course. Y grade can be reported at end of the first-term to indicate work in progress. At the end of the second term (PPE 402), the final grade is posted for both term's elections.*

**PPE 402. Senior Honors Thesis**

*Honors standing and permission of instructor. (1 - 3). May not be repeated for credit. Continuing Course. Y grade can be reported at end of the first-term to indicate work in progress. At the end of the second term, the final grade is posted for both term's elections.*

## Courses in LSA Physics

### Physics (PHYSICS)

**PHYSICS 106. Everyday Physics**

*(3). (NS). (BS). May not be repeated for credit. It is recommended that School of Education students take PHYSICS 420.*

**PHYSICS 107. 20th-Century Concepts of Space, Time, and Matter**

*High school algebra and geometry. (3). (NS). (BS). (QR/1). May not be repeated for credit. F.*

**PHYSICS 109 / CHEM 109. Natural Science: Bridging the Gaps**

*(3). (NS). (BS). May not be repeated for credit.*

**PHYSICS 112. Cosmology: The Science of the Universe**

*Although no science courses are required, high school physics would be helpful. Enrollment restricted to first-year students, including those with sophomore standing. (3). (NS). (BS). May not be repeated for credit.*

**PHYSICS 115. Principles of Physics**

*(2). May not be repeated for credit. No credit granted to those who have completed or are concurrently enrolled in PHYSICS 120, 135, 140, 160, 235, 240, or 260.*

**PHYSICS 116. From Quarks to Cosmos**

*(3). (NS). (BS). (QR/1). May not be repeated for credit.*

**PHYSICS 119 / CHEM 108 / EARTH 130. The Physical World**

*High-school algebra. (4). (NS). (BS). (QR/2). May not be repeated for credit.*

**PHYSICS 120. Foundations of Physics**

*(4 in the half-term). May not be repeated for credit. No credit granted to those who have completed or are enrolled in Physics 115 - Principles of Physics.*

**PHYSICS 121. Physics of Architecture and Design**

*High school algebra and trigonometry. (5). (NS). (BS). (QR/1). May not be repeated for credit.*

**PHYSICS 135. Physics for the Life Sciences I**

*MATH 115, 120, 185, or 295. Students should elect PHYSICS 136 concurrently. (4). (NS). (BS). (QR/1). May not be repeated for credit. No credit granted to those who have completed or are enrolled in PHYSICS 140 or 160.*

**PHYSICS 136. Physics for the Life Sciences Laboratory I**

*Concurrent election with PHYSICS 135 is strongly recommended. (1). (NS). (BS). May not be repeated for credit. No credit granted to those who have completed or are enrolled in PHYSICS 141 or 161.*

**PHYSICS 140. General Physics I**

*COREQUISITE: PHYSICS 141 (LAB). (Prerequisites enforced at registration.) MATH 115, 120, 185 or 295. (4). (NS). (BS). (QR/1). May not be repeated for credit. No credit granted to those who have completed or are enrolled in PHYSICS 135 or 160.*

**PHYSICS 141. Elementary Laboratory I**

*Corequisite PHYSICS 140 or 160. (Prerequisites enforced at registration.) (1). (NS). (BS). May not be repeated for credit. No credit granted to those who have completed or are enrolled in PHYSICS 136 or 161.*

**PHYSICS 160. Honors Physics I**

*MATH 115, 120, 185 or 295. Students should elect PHYSICS 161 or 141 concurrently. (4). (NS). (BS). (QR/1). May not be repeated for credit. No credit granted to those who have completed or are enrolled in PHYSICS 135 or 140.*

**PHYSICS 161. Honors Introductory Mechanics Lab**

*Concurrent election with PHYSICS 160 strongly recommended. (1). (NS). (BS). May not be repeated for credit. No credit granted to those who have completed or are enrolled in PHYSICS 136 or 141.*

**PHYSICS 169. The Physical Universe: An Introduction to Modern Physics, Astrophysics, and Cosmology**

*High school mathematics. (3). (NS). (BS). (QR/1). May not be repeated for credit. No credit granted for students who are enrolled in or have completed PHYSICS 112.*

**PHYSICS 210. Energy for our Future**

*(3). (NS). (BS). May not be repeated for credit.*

**PHYSICS 235. Physics for the Life Sciences II**

*PHYSICS 135; and MATH 115, 120 185, or 295. Students should elect PHYSICS 236 concurrently. (4). (NS). (BS). (QR/1). May not be repeated for credit. No credit granted to those who have completed or are enrolled in PHYSICS 240 or 260.*

**PHYSICS 236. Physics for the Life Sciences Laboratory II**

*Concurrent election with PHYSICS 235 is strongly recommended. (1). (NS). (BS). May not be repeated for credit. No credit granted to those*

who have completed or are enrolled in PHYSICS 241 or 261.

**PHYSICS 240. General Physics II**

PHYSICS 140 or 160; and MATH 116, 121, 156, 186, or 296. Students should elect PHYSICS 241 concurrently. (4). (NS). (BS). (QR/1). May not be repeated for credit. No credit granted to those who have completed or are enrolled in PHYSICS 235 or 260.

**PHYSICS 241. Elementary Laboratory II**

Concurrent election with PHYSICS 240 or 260 is strongly recommended. (1). (NS). (BS). May not be repeated for credit. No credit granted to those who have completed or are enrolled in PHYSICS 236 or 261. F, W, Sp.

**PHYSICS 260. Honors Physics II**

PHYSICS 140 or 160; and MATH 116, 121, 156, 186 or 296. Students should elect PHYSICS 261 or 241 concurrently. (4). (NS). (BS). (QR/1). May not be repeated for credit. No credit granted to those who have completed or are enrolled in PHYSICS 235 or 240.

**PHYSICS 261. Honors Electricity and Magnetism Lab**

Concurrent election with PHYSICS 260 strongly recommended. (1). (NS). (BS). May not be repeated for credit. No credit granted to those who have completed or are enrolled in PHYSICS 236 or 241.

**PHYSICS 288. Physics of Music**

(3). (NS). (BS). (QR/1). May not be repeated for credit. No credit granted to those who have completed or are enrolled in PHYSICS 489. No previous expertise in either physics or music is required.

**PHYSICS 290 / BIOPHYS 290. Physics of the Body and Mind**

PHYSICS 125 or 135 or 140 or 160. (Prerequisites enforced at registration.) MATH 115 or equivalent AP credits. (3). (NS). (BS). (QR/2). May not be repeated for credit.

**PHYSICS 340. Waves, Heat, and Light**

One of: PHYSICS 235 or 240 or 260. (Prerequisites enforced at registration.) One of: MATH 215, 255, 285, or 295. (3). (BS). May not be repeated for credit.

**PHYSICS 351. Methods of Theoretical Physics I**

One of: Math 215, 255, 285, or 295; and one of: MATH 256 or 316. (3). (BS). May not be repeated for credit.

**PHYSICS 360. Honors Physics III**

One of: PHYSICS 235, 240, or 260. (Prerequisites enforced at registration.) One of: MATH 215, 255, 285 or 295. (3). (BS). May not be repeated for credit.

**PHYSICS 365 / HONORS 365 / SI 365. Cyberscience: Computational Science and the Rise of the Fourth Paradigm**

Computing language course (e.g., EECS 183, 280, ENGR 101), Introductory statistics (e.g., Stats 250). (3). (NS). (BS). (QR/2). May not be repeated for credit.

**PHYSICS 370 / BIOPHYS 370 / CHEM 370. Physical and Chemical Principles Behind Biology and Medicine**

MATH 215; and PHYSICS 235 or 240. (Prerequisites enforced at registration.) CHEM 130 or placement in 210. (3). (NS). (BS). May not be repeated for credit. No credit granted to students who have completed or are enrolled in CHEM 260 or PHYSICS 390. F, W.

**PHYSICS 390. Introduction to Modern Physics**

COREQUISITE: PHYSICS 391. (Prerequisites enforced at registration.) PHYSICS 340 or 360 and one of: MATH 216, 256, 286 or 316. (3). (BS). May not be repeated for credit.

**PHYSICS 391. Introduction to Modern Physics Lab**

Corequisite PHYSICS 390. (Prerequisites enforced at registration.) PHYSICS 340 or PHYSICS 360 and PHYSICS 351. (2). (NS). (BS). May not be repeated for credit.

**PHYSICS 401. Intermediate Mechanics**

PHYSICS 351 or graduate standing. (Prerequisites enforced at registration.) PHYSICS 340 or 360 and one of MATH 216, 256, 286, or 316. (4). (BS). (QR/1). May not be repeated for credit.

**PHYSICS 402. Optics**

PHYSICS 340 or 360, and one of: MATH 216, 256, 286, 296 or 316: or graduate standing. (Prerequisites enforced at registration.) (3). (BS). May not be repeated for credit. A student can receive credit for only one of EECS 334 or PHYSICS 402.

**PHYSICS 405. Intermediate Electricity and Magnetism**

PHYSICS 351 or graduate standing. (Prerequisites enforced at registration.) PHYSICS 340 or 360, and one of: MATH 216, 256, 286, or 316. (4). (BS). May not be repeated for credit.

**PHYSICS 406. Statistical and Thermal Physics**

(PHYSICS 340 or 360) and PHYSICS 351, or graduate standing. (Prerequisites enforced at registration.) (4). (BS). May not be repeated for credit.

**PHYSICS 411. Introduction to Computational Physics**

PHYSICS 401 and [MATH 216 or 256 or 286 or 296 or 316]. Some familiarity with a computer language. (3). (BS). May not be repeated for credit.

**PHYSICS 413 / CMPLXSYS 541. Introduction to Nonlinear Dynamics and the Physics of Complexity**

PHYSICS 401 or Graduate Standing. (Prerequisites enforced at registration.) An intermediate mechanics course (such as PHYSICS 401) and/or a course in introductory differential equations. (3). (BS). May not be repeated for credit. F.

**PHYSICS 415. Special Problems for Undergraduates**

Consent of instructor required. (1 - 6). (INDEPENDENT). May be repeated for a maximum of 6 credits.

**PHYSICS 417 / BIOPHYS 417 / CHEM 417. Dynamical Processes in Biophysics**



MATH 216 or 256 or 286 or 296 or 316; and BIOPHYS 370 or PHYSICS 340 or PHYSICS 360 or PHYSICS 370 or CHEM 463 or CHEM 370. (Prerequisites enforced at registration.) (3). (BS). May not be repeated for credit.

**PHYSICS 420. Physics for Educators**

School of Education concentrators. (3). May not be repeated for credit. No credit granted to those who have completed or are enrolled in PHYSICS 106. W.

**PHYSICS 435. Gravitational Physics**

PHYSICS 390 and 401; or graduate standing. (Prerequisites enforced at registration.) (3). (BS). May not be repeated for credit. F.

**PHYSICS 438. Electromagnetic Radiation**

PHYSICS 405. (Prerequisites enforced at registration.) (3). (BS). May not be repeated for credit.

**PHYSICS 441. Advanced Laboratory I**

PHYSICS 390 and any 400-level Physics course. (Prerequisites enforced at registration.) (3). (BS). May not be repeated for credit. F.

**PHYSICS 442. Advanced Laboratory II**

PHYSICS 441. (Prerequisites enforced at registration.) (3). (BS). May not be repeated for credit. W.

**PHYSICS 450 / BIOPHYS 450. Laboratory Techniques in Biophysics**

BIOPHYS 370 or CHEM 370 or PHYSICS 370; or PHYSICS 390; or CHEM 452 or BIOLCHEM 452; or graduate standing. (Prerequisites enforced at registration.) (3). (BS). May not be repeated for credit. Rackham credit requires additional work.

**PHYSICS 452. Methods of Theoretical Physics II**

PHYSICS 351. (3). (BS). May not be repeated for credit.

**PHYSICS 453. Quantum Mechanics**

PHYSICS 351 and PHYSICS 390; or graduate standing. (Prerequisites enforced at registration.) PHYSICS 401 and PHYSICS 405. (4). (BS). May not be repeated for credit.

**PHYSICS 457. Particle Physics and Cosmology**

PHYSICS 453; or graduate standing. (Prerequisites enforced at registration.) (3). (BS). May not be repeated for credit. W.

**PHYSICS 460. Quantum Mechanics II**

PHYSICS 453; or graduate standing. (Prerequisites enforced at registration.) (3). (BS). May not be repeated for credit. W.

**PHYSICS 463. Introduction to Solid State Physics**

PHYSICS 453; or graduate standing. (Prerequisites enforced at registration.) (3). (BS). May not be repeated for credit. W.

**PHYSICS 465. Advanced Topics in Physics**

(2). (BS). May not be repeated for credit.

**PHYSICS 481 / PUBPOL 481. Science, Technology and Public Policy**

(3). May not be repeated for credit. May not be included in a concentration plan in Physics.

**PHYSICS 496. Senior Thesis, I**

Consent of instructor required. Permission of departmental concentration advisor. (2 - 3). (BS). (INDEPENDENT). May not be repeated for credit. Continuing Course. Y grade can be reported at end of the first-term to indicate work in progress. At the end of the second term of PHYSICS 497, the final grade is posted for both term's elections. F, W, Sp/Su, Sp, Su.

**PHYSICS 497. Senior Thesis II**

Consent of instructor required. Permission of departmental concentration advisor. (2 - 3). (BS). (INDEPENDENT). May not be repeated for credit. F, W, Sp/Su, Sp, Su.

**PHYSICS 498. Introduction to Research for Honors Students**

Consent of instructor required. Permission of departmental concentration advisor. (2 - 3). (BS). (INDEPENDENT). May not be repeated for credit. Continuing Course. Y grade can be reported at end of the first-term to indicate work in progress. At the end of the second term of PHYSICS 499, the final grade is posted for both term's elections. F, W, Sp/Su, Sp, Su.

**PHYSICS 499. Introduction to Research for Honors Students**

Consent of instructor required. Permission of Physics concentration advisor. (2 - 3). (BS). (INDEPENDENT). May not be repeated for credit. F, W, Sp/Su, Sp, Su.

## Courses in LSA Political Science

### Political Science (POLSCI)

**POLSCI 101. Introduction to Political Theory**

Primarily for first and second year students. (4). (SS). May not be repeated for credit. F, W, Sp.

**POLSCI 111. Introduction to American Politics**

Primarily for first and second year students. (4). (SS). May not be repeated for credit.

**POLSCI 140. Introduction to Comparative Politics**

Primarily for first- and second-year students. (4). (SS). May not be repeated for credit. F, W.

**POLSCI 160. Introduction to World Politics**

(4). (SS). May not be repeated for credit. F, W, Su.

**POLSCI 190. First-Year Seminar in Political Science**

Enrollment restricted to first-year students, including those with sophomore standing. (3). (SS). May not be repeated for credit.

**POLSCI 195. Special Topics Mini Course**

Consent of department required. (1 - 2). May be elected twice for

credit.

**POLSCI 230. Honors Core in Political Science**

Consent of department required. (4). (SS). May be elected twice for credit. May be elected more than once in the same term.

**POLSCI 240. Honors Core Writing in Political Science**

Consent of department required. (4). (SS). (FYWR). May be elected twice for credit. May be elected more than once in the same term.

**POLSCI 299. Directed Undergraduate Internship in Political Science**

Consent of department required. Declared political science concentrator. (1). (EXPERIENTIAL). May be elected twice for credit. Offered mandatory credit/no credit.

**POLSCI 300. Quantitative Empirical Methods of Political Science**

One Political Science course. (4). (SS). (QR/1). May not be repeated for credit.

**POLSCI 301. Development of Political Thought: To Modern Period**

(3). (SS). May not be repeated for credit.

**POLSCI 302. Development of Political Thought: Modern and Recent**

POLSCI 101. (3). May not be repeated for credit.

**POLSCI 306. American Political Thought: Early**

POLSCI 101 or upperclass standing. (3 - 4; 3 in the half-term). (SS). May not be repeated for credit.

**POLSCI 307. American Political Thought: Late**

POLSCI 101 or 111. (3 - 4). (SS). May be elected twice for credit. May be elected more than once in the same term.

**POLSCI 309 / ENVIRON 307. Theoretical Perspectives on Environmental Change**

POLSCI 101. (3 - 4). (SS). May be elected twice for credit.

**POLSCI 311. American Political Processes**

POLSCI 111 or upperclass standing. (3). (SS). May not be repeated for credit.

**POLSCI 312. Persuasive Politics: Voters, Campaigns and Communication Strategies**

(4). (SS). May not be repeated for credit.

**POLSCI 315. Media and Public Opinion**

POLSCI 111 or upperclass standing. (4; 3 in the half-term). (SS). May not be repeated for credit.

**POLSCI 316 / HISTORY 235. History of Law and Social Justice**

(3 - 4; 3 in the half-term). (SS). May not be repeated for credit.

**POLSCI 317. Courts, Politics and Society**

One course in Political Science. (3). May not be repeated for credit.

**POLSCI 318. American Constitutional Politics**

POLSCI 111. (3). May not be repeated for credit.

**POLSCI 319 / HISTORY 411. The Politics of Civil Liberties and Civil Rights**

POLSCI 111. (4). (R&E). May not be repeated for credit.

**POLSCI 320. The American Chief Executive**

POLSCI 111 or upperclass standing. (Prerequisites enforced at registration.) (4; 3 in the half-term). (SS). May not be repeated for credit.

**POLSCI 321. Political Strategy and Debate**

Not available for students who have completed POLSCI 389, Topic = Political Strategy and Debate (Topic Id # = 47). (Prerequisites enforced at registration.) POLSCI 111 and Junior or Senior standing. (3). May not be repeated for credit.

**POLSCI 324 / AAS 418. Black Americans and the Political System**

One course in Political Science and AAS 201. (3). May not be repeated for credit.

**POLSCI 326. American State Government**

POLSCI 111 or upperclass standing. (Prerequisites enforced at registration.) (3). (SS). May not be repeated for credit.

**POLSCI 329 / COMM 329. Mass Media and Political Behavior**

(4). (SS). May not be repeated for credit.

**POLSCI 330. Psychological Perspectives on Politics**

POLSCI 111 or upperclass standing. (Prerequisites enforced at registration.) (3). (SS). May not be repeated for credit.

**POLSCI 331 / ENVIRON 345 / SOC 380. Environmental Public Opinion Analysis**

(3). (SS). May not be repeated for credit.

**POLSCI 332. The Politics of America's Economic Inequality**

Not available for students who have completed POLSCI 389, Topic = Politics of Inequality in U.S. (Topic Id # = 73). (Prerequisites enforced at registration.) Some coursework in U.S. politics is recommended but not required. (4). (SS). May not be repeated for credit.

**POLSCI 334 / ANTHRCUL 317 / HISTORY 228 / REEES 397 / SLAVIC 397 / SOC 317. Communism and Capitalism in Eastern Europe**

(4). (SS). May not be repeated for credit. No credit granted to those who have completed or are enrolled in REEES 396 or SLAVIC 396 or POLSCI 396 or HISTORY 333 or SOC 393.

**POLSCI 336. Energy Politics**

One course in Political Science. (3). (SS). May not be repeated for credit.

**POLSCI 337. State and Market in Contemporary China**  
(4). May not be repeated for credit.

**POLSCI 338. The Constitution Outside of the Courts**  
(3). May not be repeated for credit.

**POLSCI 339 / ASIAN 428. China's Evolution Under Communism**  
Upperclass standing. (4; 3 in the half-term). May not be repeated for credit.

**POLSCI 340. Governments and Politics in Western Europe**  
POLSCI 140 or upperclass standing. (4). (SS). May not be repeated for credit.

**POLSCI 342 / ANTHRCUL 343. Eastern Europe: Revolution, Reaction, and Reform**  
POLSCI 140 or upperclass standing. (3). (SS). May not be repeated for credit.

**POLSCI 343. Political Economy of Developed Democracies**  
(3). May not be repeated for credit.

**POLSCI 345 / ASIAN 387 / RCSSCI 387. Hate in Asia: Cultures of Conflict and Reconciliation**  
At least one course on the history, politics, or culture of Asia. (4). (ID). May not be repeated for credit.

**POLSCI 348. Political Economy of Development**  
(3). May not be repeated for credit.

**POLSCI 350 / JUDAIC 451. The Politics and Culture of Modern East European Jewry**  
A course in East European and/or Jewish history, and Comparative Politics is recommended. (3). May not be repeated for credit.

**POLSCI 353. The Arab-Israeli Conflict**  
(4). May not be repeated for credit.

**POLSCI 354 / SEAS 354. Governments and Politics of Southeast Asia**  
One course in Political Science or upperclass standing. (3). (SS). May not be repeated for credit.

**POLSCI 355 / AAS 356. Democracy and Development in Africa**  
(4). May not be repeated for credit.

**POLSCI 356. Government and Politics of Japan**  
POLSCI 140 or upperclass standing. (3). (SS). May not be repeated for credit.

**POLSCI 359 / AAS 359. African Politics**  
AAS 200. (3 - 4; 3 in the half-term). May not be repeated for credit.

**POLSCI 362 / HISTORY 312. History of European Integration**

(4; 3 in the half-term). (ID). May not be repeated for credit.

**POLSCI 364. Public International Law**  
One course in Political Science. (3). May not be repeated for credit.

**POLSCI 368. Modern Warfare**  
POLSCI 160. (4). (SS). May not be repeated for credit.

**POLSCI 369. Politics of International Economic Relations**  
POLSCI 160. (Prerequisites enforced at registration.) (4; 3 in the half-term). (SS). May not be repeated for credit.

**POLSCI 371. The American Foreign Policy Process**  
One course in Political Science. (3). May not be repeated for credit.

**POLSCI 372. International Security Affairs**  
One course in Political Science. (Prerequisites enforced at registration.) (3). May not be repeated for credit.

**POLSCI 380 / ENVIRON 312 / PUBPOL 312. Environmental Politics and Policy**  
(3). May not be repeated for credit.

**POLSCI 381. Political Science Research Design**  
Political Science and PPE (Program in Philosophy, Politics and Economics) Majors. (Prerequisites enforced at registration.) (3). (SS). May not be repeated for credit.

**POLSCI 383. Political Science Research Opportunity**  
Consent of instructor required. (1 - 3). (INDEPENDENT). May be repeated for a maximum of 6 credits. May be elected more than once in the same term.

**POLSCI 384. Directed Studies**  
Consent of instructor required. (1 - 3). (INDEPENDENT). May be repeated for a maximum of 6 credits. May be elected more than once in the same term.

**POLSCI 385. Political Science Special Topics Mini Course**  
(1 - 2). May be elected twice for credit.

**POLSCI 386 / GERMAN 379 / SOC 379. Sports, Politics, and Society**  
One introductory course in sociology or political science. (3). (SS). May not be repeated for credit. No credit for those who have completed SOC 212/GERMAN 212.

**POLSCI 387. Comparative Analysis of Government Institutions**  
Two courses in political science or junior standing. (3 - 4). (SS). (QR/2). May not be repeated for credit.

**POLSCI 388 / ASIAN 389. Asian Business Culture**  
At least one Asian culture course on history, economics, politics, or popular culture. (4). (ID). May not be repeated for credit.

**POLSCI 389. Topics in Contemporary Political Science**

One course in Political Science. (3 - 4). (SS). May be repeated for a maximum of 10 credits. May be elected more than once in the same term.

**POLSCI 391 / CMLXSYS 391. Introduction to Modeling Political Processes**

One course in Political Science. (4). (SS). (QR/1). May not be repeated for credit.

**POLSCI 392. Michigan in Washington: Preparatory Seminar**

Consent of department required. Admission to Michigan in Washington Program. (2). May be elected twice for credit. Continuing Course. Y grade can be reported at end of the first-term to indicate work in progress. At the end of the second term, the final grade is posted for both term's elections. Offered mandatory credit/no credit.

**POLSCI 393. Inside Washington, D.C.**

Consent of instructor required. (1). (EXPERIENTIAL). May not be repeated for credit. Offered mandatory credit/no credit.

**POLSCI 395 / HISTORY 332 / REEES 395 / SLAVIC 395 / SOC 392.****Russia and the Soviet Union: Reform, Revolution, and the Socialist Experiment**

(4; 3 in the half-term). (SS). May not be repeated for credit. May not be counted in a Slavic Department academic minor. F.

**POLSCI 396 / REEES 396 / SLAVIC 396 / SOC 393. East Central Europe: Nationalism, Socialism, Democracy**

(3 - 4). (SS). May not be repeated for credit. May not be counted in a Slavic Department academic minor.

**POLSCI 398. Michigan In Washington: Internship**

Consent of department required. (2). (EXPERIENTIAL). May not be repeated for credit. Offered mandatory credit/no credit.

**POLSCI 399. Advanced Internship in Political Science**

Consent of instructor required. Political Science majors who have completed at least two-upper-level POLSCI courses. (3). (EXPERIENTIAL). May be elected twice for credit.

**POLSCI 401 / WOMENSTD 422. Feminist Political Theory**

Junior standing. (3). May not be repeated for credit.

**POLSCI 402. Liberalism and Its Critics**

POLSCI 101 or 302. (3). May not be repeated for credit.

**POLSCI 406. Democratic Theory**

POLSCI 101 or 302. (3). May not be repeated for credit.

**POLSCI 407. Marxism and 20th-Century Radicalism**

POLSCI 101 or 302. (Prerequisites enforced at registration.) (3). May not be repeated for credit.

**POLSCI 409. Twentieth Century Political Thought**

POLSCI 101, 302 or an equivalent. (3). May not be repeated for credit.

**POLSCI 410. Washington Experience Seminar**

Consent of instructor required. (2). (EXPERIENTIAL). May not be repeated for credit. Offered mandatory credit/no credit.

**POLSCI 411. Michigan In Washington: National Capital Research Project**

Consent of department required. (4). (INDEPENDENT). May not be repeated for credit.

**POLSCI 421. Law and Gender**

Not available for students who have completed POLSCI 496, Topic = Law and Gender (Topic Id # = 11). (Prerequisites enforced at registration.) Senior standing. (3). May not be repeated for credit.

**POLSCI 427. Race and the Shaping of American Politics**

Not available for students who have completed POLSCI 496, Topic = Race and Shaping of American Politics (Topic Id # = 34). (Prerequisites enforced at registration.) Senior standing. (3). May not be repeated for credit.

**POLSCI 432. Law and Public Policy**

Two courses in Political Science, including POLSCI 111 or its equivalent. (4; 3 in the half-term). May not be repeated for credit.

**POLSCI 464. Advanced Public International Law**

POLSCI 160. (3). May not be repeated for credit.

**POLSCI 485. Election Forensics**

Political Science major. (3). (QR/2). May not be repeated for credit.

**POLSCI 486. Public Opinion, Political Participation, and Pressure Groups**

One course in Political Science. (Prerequisites enforced at registration.) (3). May not be repeated for credit.

**POLSCI 489. Advanced Topics in Contemporary Political Science**

Seniors only. (3). May be repeated for a maximum of 9 credits. May be elected more than once in the same term.

**POLSCI 490. Game Theory and Formal Models**

(4). May not be repeated for credit.

**POLSCI 491. Directed Studies**

Consent of instructor required. Two courses in Political Science and permission of instructor and the Director of Undergraduate Studies. (1 - 6). (INDEPENDENT). May be repeated for a maximum of 8 credits. POLSCI 491 and 492 may be elected for a combined maximum of eight credits. No more than four credits of directed study credit may be elected as part of a concentration program in Political Science. F.

**POLSCI 492. Directed Studies**

Consent of instructor required. Two courses in Political Science and permission of instructor and the Director of Undergraduate Studies. (1

- 6). (INDEPENDENT). May be repeated for a maximum of 8 credits. POLSCI 491 and 492 may be elected for a combined maximum of eight credits. No more than four credits of directed study credit may be elected as part of a concentration program in Political Science. W.

**POLSCI 493. Senior Honors Proseminar**

Open only to senior Honors concentrators. (4). (INDEPENDENT). May not be repeated for credit. No more than four Honors credits may be elected as part of a concentration plan in Political Science. Continuing Course. Y grade can be reported at end of the first-term to indicate work in progress. At the end of the second term (POLSCI 494), the final grade is posted for both term's elections. F.

**POLSCI 494. Senior Honors Proseminar**

Open only to senior Honors concentrators. (4). (INDEPENDENT). May not be repeated for credit. No more than four Honors credits may be elected as part of a concentration plan in Political Science. W.

**POLSCI 495. Undergraduate Seminar in Political Theory**

One of the following: POLSCI 101, 301, 302, 307, 309; or PHIL 366; or GTBOOKS 191 or 192. (Prerequisites enforced at registration.) (3). May be elected twice for credit. May be elected more than once in the same term.

**POLSCI 496. Undergraduate Seminar in American Government and Politics**

Senior standing; primarily for seniors concentrating in Political Science. (3). May be elected twice for credit. May be elected more than once in the same term.

**POLSCI 497. Undergraduate Seminar in Comparative and Foreign Government**

Senior standing; primarily for seniors concentrating in Political Science. (3). May be elected twice for credit. May be elected more than once in the same term.

**POLSCI 498. Undergraduate Seminar in International Politics**

Senior standing; primarily for seniors concentrating in Political Science. (3). May be elected twice for credit. May be elected more than once in the same term.

**POLSCI 499. Quantitative Methods of Political Analysis**

(3). May not be repeated for credit.

**POLSCI 514. The Use of Social Science Computer Programs**

Consent of instructor required. POLSCI 599/equivalent or permission of instructor. (2). May not be repeated for credit.

## Courses in LSA Psychology

### Psychology (PSYCH)

**PSYCH 111. Introduction to Psychology**

(4). (SS). May not be repeated for credit. No credit granted to those who have completed or are enrolled in PSYCH 112, 114, or 115. PSYCH

111 may not be included in a major in Psychology or a major in Biopsychology, Cognition, and Neuroscience. Students in PSYCH 111 are required to spend five hours outside of class participating as subjects in research projects. F, W, Sp, Su.

**PSYCH 112. Introduction to Psychology as a Natural Science**

(4). (NS). (BS). May not be repeated for credit. No credit granted to those who have completed or are enrolled in PSYCH 111, 114, 115, or 116. PSYCH 112 may not be included in a major in Psychology or a major in Biopsychology, Cognition, and Neuroscience. Students in PSYCH 112 are required to spend five hours outside of class participating as subjects in research projects.

**PSYCH 114. Honors Introduction to Psychology**

LSA Honors Students. (Prerequisites enforced at registration.) Non-honors students must obtain permission of instructor. (4). (SS). May not be repeated for credit. No credit granted to those who have completed or are enrolled in PSYCH 111, 112, or 115. May not be included in a major in Psychology or a major in Biopsychology, Cognition, and Neuroscience. Students in PSYCH 114 are required to spend three hours outside of class participating as subjects in research projects.

**PSYCH 119 / WOMENSTD 119. Gender, Sex, and Sexuality in Science and Medicine**

First year students only. (Prerequisites enforced at registration.) (3). (NS). May not be repeated for credit.

**PSYCH 120. First-Year Seminar in Psychology as a Social Science**

Enrollment restricted to first-year students, including those with sophomore standing. (3). (SS). May not be repeated for credit. Does not count toward the requirements for the Psychology major nor the major in Biopsychology, Cognition, and Neuroscience.

**PSYCH 121. First-Year Seminar in Psychology as a Natural Science**

Enrollment restricted to first-year students, including those with sophomore standing. (3). (NS). (BS). May not be repeated for credit. Does not count toward the requirements for the Psychology major nor the major in Biopsychology, Cognition, and Neuroscience.

**PSYCH 122 / ALA 122 / SOC 122. Intergroup Dialogues**

Consent of instructor required. (3). (R&E). May be repeated for a maximum of 6 credits. May not be used as a prerequisite for, or included in a major in Psychology. Does not count toward the requirements for the major in Biopsychology, Cognition, and Neuroscience.

**PSYCH 200. Independent Study in Psychological Issues**

Consent of instructor required. One of the following: PSYCH 111, 112, 114, 115, 120, or 121. (1 - 4). (INDEPENDENT). May be repeated for a maximum of 4 credits.

**PSYCH 211. Project Outreach**

Prior or concurrent enrollment in an introductory Psychology course. (3). (EXPERIENTIAL). May be repeated for a maximum of 6 credits. May be elected more than once in the same term. This course may only be repeated if a different section is selected. All sections of Outreach

count as an experiential lab for the Psychology major; they do not count as a lab for the Biopsychology, Cognition, and Neuroscience major.

**PSYCH 218. Sophomore Seminar in Psychology as a Social Science**  
An introductory course in psychology or similar social science. (3 - 4). (SS). May not be repeated for credit. Does not count toward the requirements for the Psychology major.

**PSYCH 220. Introduction to Biopsychology, for Non-BCN or Non-Neuroscience majors**  
(4). (NS). (BS). May not be repeated for credit.

**PSYCH 223 / ALA 223. Entrepreneurial Creativity**  
No credit is granted for students who previously took UC 270 with the topic "Entrepreneurial Creativity" (#27). (Prerequisites enforced at registration.) (3). May not be repeated for credit. Does not count toward the requirements for the Psychology or Biopsychology, Cognition, and Neuroscience majors.

**PSYCH 225 / WOMENSTD 225. Psychology of Human Sexuality**  
(3). (SS). May not be repeated for credit. Does not count as a breadth course for Psychology or BCN majors.

**PSYCH 226. Undergraduate Research in Psychology**  
Consent of instructor required. (1 - 4). (EXPERIENTIAL). May be repeated for a maximum of 8 credits. Credit is granted for a combined total of 8 credits in any UROP research course.

**PSYCH 230. Introduction to Behavioral Neuroscience**  
(PSYCH 111 or 112 or 114 or 115) or (BIOLOGY 162 or 163 or 171 or 172 or 195). (Prerequisites enforced at registration.) Basic familiarity with biology and chemistry. (4). (NS). (BS). May not be repeated for credit.

**PSYCH 240. Introduction to Cognitive Psychology**  
PSYCH 111 or 112 or 114 or 115 or 116. (Prerequisites enforced at registration.) (4). (NS). (BS). May not be repeated for credit.

**PSYCH 242 / LING 209. Language and Human Mind**  
Not available to students who have completed LING 103 (courseID 020035), Topic: Language and Mind,(Topic #6). (Prerequisites enforced at registration.) (4; 3 in the half-term). (ID). May not be repeated for credit. Does not count toward the requirements for the Psychology major.

**PSYCH 250. Introduction to Developmental Psychology**  
One of the following: PSYCH 111, 112, 114, or 115. (Prerequisites enforced at registration.) (4). (SS). May not be repeated for credit.

**PSYCH 270. Introduction to Psychopathology**  
One of the following: PSYCH 111, 112, 114, or 115. (Prerequisites enforced at registration.) (4). (SS). May not be repeated for credit.

**PSYCH 280. Introduction to Social Psychology**

One of: PSYCH 111 or 112 or 114 or 115 or 116. (Prerequisites enforced at registration.) (4). (SS). May not be repeated for credit.

**PSYCH 290. Introduction to Personality and Social Contexts**  
One of: PSYCH 111 or 112 or 114 or 115 or 116. (Prerequisites enforced at registration.) (4). (SS). May not be repeated for credit.

**PSYCH 291 / WOMENSTD 291. Introduction to the Psychology of Women and Gender**  
PSYCH 111, 112, 114, 115, 116 or WOMENSTD 220. (Prerequisites enforced at registration.) (4). (SS). (R&E). May not be repeated for credit.

**PSYCH 296 / HISTORY 296 / WOMENSTD 296. Gender, Sex Differences, and Addiction: Girls Gone Wild**  
(3 - 4; 3 in the half-term). (SS). May not be repeated for credit.

**PSYCH 297 / WOMENSTD 297. Promoting Equity and Inclusion in the University and the Workplace**  
(3). (SS). May not be repeated for credit.

**PSYCH 302. Research Methods in Cognitive Neuroscience**  
One of STATS 250 OR STATS 280; and one of the following: PSYCH 220, 230, or 240. (Prerequisites enforced at registration.) (3). (BS). May be repeated for a maximum of 6 credits.

**PSYCH 303. Research Methods in Psychology**  
One of STATS 250, STATS 280, STATS 425, or MATH 425; and one of PSYCH 230, 240, 250, 260, 270, 280, or 290. (Prerequisites enforced at registration.) (3). (BS). May not be repeated for credit.

**PSYCH 304. Practicum in Teaching and Leading Groups**  
Consent of instructor required. One of the following: PSYCH 111, 112, 114, or 115 and permission of instructor. (2 - 4). (EXPERIENTIAL). May be repeated for a maximum of 6 credits. A maximum of 12 credits may be elected through PSYCH 304, 305, 306, 307, and 308. A total of six credits of Psychology letter-graded experiential courses may be counted for the Psychology concentration.

**PSYCH 305. Practicum in Psychology**  
One of the following: PSYCH 230, 240, 250, 260, 270, 280, or 290. (1 - 4). (EXPERIENTIAL). May be repeated for a maximum of 6 credits. May be elected more than once in the same term. A maximum of 12 credits may be elected through PSYCH 304, 305, 306, 307, and 308. A total of six credits of PSYCH letter-graded experiential courses may be counted for the Psychology concentration. PSYCH 305 must be taken for at least three credits to count as an experiential lab in the Psychology concentration.

**PSYCH 306. Project Outreach Group Leading**  
Consent of instructor required. PSYCH 211 and one of the following: PSYCH 111, 112, 114, or 115 and permission of instructor. (3). (EXPERIENTIAL). May be repeated for a maximum of 6 credits. A maximum of 12 credits may be elected through PSYCH 304, 305, 306, 307, and 308. A total of six credits of Psychology letter-graded experiential courses may be counted for the Psychology concentration.

**PSYCH 307. Directed Experiences with Children**

Consent of instructor required. One of the following: PSYCH 111, 112, 114, or 115 and permission of instructor. (3 - 4). (EXPERIENTIAL). May be repeated for a maximum of 7 credits. A maximum of 12 credits may be elected through PSYCH 304, 305, 306, 307, and 308. A total of six credits of Psychology letter-graded experiential courses may be counted for the Psychology concentration. F, W, Sp/Su, Sp, Su.

**PSYCH 308. Peer Advising Practicum in Psychology**

Consent of instructor required. Admission by application. At least junior standing in the Psychology or Brain, Behavior and Cognitive Sciences concentration. (2 - 3). (EXPERIENTIAL). May be repeated for a maximum of 6 credits. A maximum of 12 credits may be elected through PSYCH 304, 305, 306, 307, and 308. A total of six credits of Psychology letter-graded experiential courses may be counted for the Psychology concentration.

**PSYCH 310 / ALA 320 / SOC 320. Processes of Intergroup Dialogues Facilitation**

Admission by application. Previous participation in UC 122/PSYCH 122/SOC 122 strongly encouraged. (3). (R&E). May not be repeated for credit. May be used as an experiential lab in the Psychology concentration. A total of six credits of Psychology letter-graded experiential courses may be counted for the Psychology concentration.

**PSYCH 311 / ALA 321 / SOC 321. Practicum in Facilitating Intergroup Dialogues**

PSYCH 310/SOC 320 and permission of instructor. (4). (EXPERIENTIAL). May not be repeated for credit. A total of six credits of Psychology letter-graded experiential courses may be counted for the Psychology concentration.

**PSYCH 312 / ALA 228 / SOC 375. Intergroup Conflict and Coexistence: Religion, Ethnicity and Culture**

(3). May not be repeated for credit.

**PSYCH 314. Positive Psychology**

(SS). May not be repeated for credit.

**PSYCH 316 / AAS 331. The World of the Black Child**

One course in Psychology or Afro-American and African Studies. (3). May not be repeated for credit.

**PSYCH 317 / AMCULT 306. Community Research**

One of the following: PSYCH 111, 112, 114, or 115. (4). May not be repeated for credit. PSYCH 317 and 318 may be used as an experiential lab in the Psychology concentration. A total of six credits of Psychology letter-graded Community-based courses may be counted towards the psychology concentration.

**PSYCH 318 / COMM 318. Media and Violence**

COMM 281 strongly recommended. (4). May not be repeated for credit. No credit granted to students who have completed COMM/PSYCH 481, Media & Violence (Crse ID #019987).

**PSYCH 319 / AMCULT 319. Empowering Families and Communities**

One of the following: PSYCH 111, 112, 114, or 115. (4). May not be repeated for credit. A total of six credits of Psychology letter-graded Community-based courses may be counted towards the psychology concentration. F.

**PSYCH 322. Field Practicum in Research Techniques for Psychology as a Natural Science**

Consent of instructor required. One of the following: PSYCH 230, 240, 250, 260, 270, 280, or 290, and permission of instructor. (1 - 4). (BS). (EXPERIENTIAL). May be repeated for a maximum of 6 credits. Credit is granted for a combined total of six credits of PSYCH 322, 323, 326, 327. Credits may not be counted in the Psychology or BCN major. Offered mandatory credit/no credit.

**PSYCH 323. Field Practicum in Research Techniques for Psychology as a Social Science**

Consent of instructor required. One of the following: PSYCH 230, 240, 250, 260, 270, 280, or 290, and permission of instructor. (1 - 4). (EXPERIENTIAL). May be repeated for a maximum of 6 credits. Credit is granted for a combined total of six credits of PSYCH 322, 323, 326, 327. Credits may not be counted in a concentration plan in Psychology. Offered mandatory credit/no credit.

**PSYCH 324 / ALA 322 / SOC 324. Advanced Practicum in Intergroup Relations**

Consent of instructor required. UC 320/PSYCH 310/SOC 320. (1 - 4). (EXPERIENTIAL). May be repeated for a maximum of 8 credits. A total of six credits of Psychology letter-graded Research-based courses may be counted towards the Psychology concentration.

**PSYCH 325 / AMCULT 321. Practicum in the Multicultural Community**

One of the following: PSYCH 111, 112, 114, or 115. (1 - 4). (EXPERIENTIAL). May not be repeated for credit. A total of six credits of PSYCH letter-graded experiential courses may be counted for the Psychology major. PSYCH 325 must be taken for at least three credits to count as an experiential lab in the Psychology major. No more than 6 credits of directed readings/internships may be counted toward the American Culture major.

**PSYCH 326. Faculty Directed Early Research for Psychology as a Natural Science**

Consent of instructor required. One of: PSYCH 230, 240, 250, 260, 270, 280, or 290 with at least a grade of C. (1 - 4). (BS). (INDEPENDENT). May be repeated for a maximum of 6 credits. May be repeated for a maximum of 6 credits. A student may elect a combined maximum of 6 credits of PSYCH 322, 323, 326 and 327. A total of six credits of Psychology letter-graded Research-based courses may be counted towards the Psychology concentration.

**PSYCH 327. Faculty Directed Early Research for Psychology as a Social Science**

Consent of instructor required. One of: PSYCH 230, 240, 250, 260, 270, 280, or 290 with at least a grade of C. (1 - 4). (INDEPENDENT). May be repeated for a maximum of 6 credits. May be repeated for a maximum of 6 credits. A student may elect a combined maximum of 6 credits of PSYCH 322, 323, 326 and 327. A total of six credits of Psychology letter-graded Research-based courses may be counted towards the Psychology concentration.

**PSYCH 328. Research Lab for Psychology as a Natural Science**

Consent of instructor required. Concurrent research participation in a Psychology lab and one of the following: PSYCH 230, 240, 250, 260, 270, 280, or 290, and permission of instructor. (1). (BS). (EXPERIENTIAL). May be elected four times for credit.

**PSYCH 330. Topics in Biopsychology**

PSYCH 230. (Prerequisites enforced at registration.) (3). (NS). (BS). May be elected twice for credit. May be elected more than once in the same term.

**PSYCH 331. Research Methods in Brain, Behavior, and Cognitive Science**

Consent of instructor required. Admission by application. Completion of STATS 250 or STATS 280 or STATS 425 or MATH 425; and one of the following: PSYCH 230, 240, 335, or 345. (4). (BS). May not be repeated for credit. Satisfies a Psychology research-based laboratory requirement.

**PSYCH 333. Affective Neuroscience**

PSYCH 230. (Prerequisites enforced at registration.) (3). (NS). (BS). May not be repeated for credit.

**PSYCH 334. Neuroscience of Learning and Memory**

PSYCH 230 or BIOLOGY 225. (Prerequisites enforced at registration.) (3). (NS). (BS). May not be repeated for credit.

**PSYCH 335. Introduction to Animal Behavior**

One of the following: PSYCH 111, 112, 114, 115, BIOLOGY 162, 163, 171, 172, 195 or ANTHRIBIO 161. (Prerequisites enforced at registration.) (4). (NS). (BS). May not be repeated for credit.

**PSYCH 336. Drugs of Abuse, Brain and Behavior**

PSYCH 230 or BIOLOGY 225. (Prerequisites enforced at registration.) (BIOLOGY 162 or 163 or 172 or 195) and a CHEM course. (3). (NS). (BS). May not be repeated for credit.

**PSYCH 337. Hormones and Behavior**

PSYCH 230. (Prerequisites enforced at registration.) (3). (NS). (BS). May not be repeated for credit.

**PSYCH 338 / ANTHRIBIO 368. Primate Social Behavior I**

(4). (NS). (BS). May not be repeated for credit. F.

**PSYCH 339. Biopsychology of Cooperation**

PSYCH 230 or 335. (Prerequisites enforced at registration.) (3). (NS). (BS). May not be repeated for credit.

**PSYCH 340. Topics in Cognition and Cognitive Neuroscience**

PSYCH 240. (Prerequisites enforced at registration.) (3). (NS). (BS). May be elected twice for credit. May be elected more than once in the same term.

**PSYCH 341. Advanced Laboratory in Cognitive Psychology**

PSYCH 240 or 245 or 345; and one of the following: STATS 250, STATS

280, STATS 425, or MATH 425. (Prerequisites enforced at registration.) (3). (NS). (BS). May not be repeated for credit. Satisfies a Psychology research-based laboratory requirement.

**PSYCH 343. Cognitive Neuroscience of Learning and Memory**

PSYCH 230 or 240. (Prerequisites enforced at registration.) (3). (NS). (BS). May not be repeated for credit.

**PSYCH 344 / ELI 351 / LING 351. Second Language Acquisition**

LING 111 or 210. (3). (BS). May not be repeated for credit.

**PSYCH 345. Introduction to Human Neuropsychology**

One of the following: PSYCH 111, 112, 114, 115, or 116. (Prerequisites enforced at registration.) (4). (NS). (BS). May not be repeated for credit. No credit granted to those who have completed or are enrolled in PSYCH 634.

**PSYCH 346. Learning and Memory**

PSYCH 240 or 345. (Prerequisites enforced at registration.) (3). (NS). (BS). May not be repeated for credit.

**PSYCH 347. Perception**

PSYCH 230, 240 or 345. (Prerequisites enforced at registration.) (3). (NS). (BS). May not be repeated for credit.

**PSYCH 349 / LING 347. Talking Minds**

At least one of: LING 111 or 210, or PSYCH 111, 112, 114, or 115. (3). (BS). May not be repeated for credit.

**PSYCH 350. Current Topics in Developmental Psychology**

PSYCH 250. (Prerequisites enforced at registration.) (3). May be elected twice for credit. May be elected more than once in the same term.

**PSYCH 351. Advanced Laboratory in Developmental Psychology**

PSYCH 220 or 230 or 240 or 250 or 270 or 280 or 290 or 291; AND one of: STATS 250 or STATS 280 or STATS 425 or MATH 425. (Prerequisites enforced at registration.) (3). May not be repeated for credit. Satisfies a Psychology research-based laboratory requirement. F, W, Sp.

**PSYCH 352 / LING 352. Development of Language and Thought**

PSYCH 250. (3). (SS). May not be repeated for credit.

**PSYCH 353. Social Development**

PSYCH 250. (3). (SS). May not be repeated for credit.

**PSYCH 355. Cognitive Development**

PSYCH 250. (3). (NS). (BS). May not be repeated for credit.

**PSYCH 356. Educational Psychology**

PSYCH 250. (4). (SS). May not be repeated for credit.

**PSYCH 358. Psychology of Adolescence**

PSYCH 250. (Prerequisites enforced at registration.) (3). (BS). May not



*be repeated for credit.*

**PSYCH 360 / ENVIRON 360. Behavior and Environment**

(3). (SS). *May not be repeated for credit.*

**PSYCH 362 / ENVIRON 361. The Psychology of Environmental Stewardship**

(3). (SS). *May not be repeated for credit.*

**PSYCH 370. Topics in Clinical Psychology**

PSYCH 270. (Prerequisites enforced at registration.) (3). *May be elected twice for credit. May be elected more than once in the same term.*

**PSYCH 371. Advanced Laboratory in Psychopathology**

One of STATS 250, STATS 280, STATS 425, or MATH 425; and one of PSYCH 111, 112, 114, or 115. (Prerequisites enforced at registration.) PSYCH 270. (3). *May not be repeated for credit.*

**PSYCH 372. Clinical Psychology**

PSYCH 270. (Prerequisites enforced at registration.) (3). (SS). *May not be repeated for credit.*

**PSYCH 373. Child and Adolescent Psychopathology**

PSYCH 270. (Prerequisites enforced at registration.) (3). (SS). *May not be repeated for credit.*

**PSYCH 374. Culture and Mental Health**

PSYCH 270. (Prerequisites enforced at registration.) (3). (SS). *May not be repeated for credit.*

**PSYCH 380. Topics in Social Psychology**

PSYCH 280. (Prerequisites enforced at registration.) (3). (SS). *May be elected twice for credit. May be elected more than once in the same term.*

**PSYCH 381 / SOC 472. Advanced Laboratory in Social Psychology**

STATS 250, STATS 280, STATS 425, or MATH 425; and one of the following: PSYCH 111, 112, 114, or 115. (Prerequisites enforced at registration.) PSYCH 280. (3). *May not be repeated for credit. Satisfies a Psychology research-based laboratory requirement. F, W, Su.*

**PSYCH 385. Sex and Survival**

PSYCH 280. (Prerequisites enforced at registration.) (3). (SS). *May not be repeated for credit.*

**PSYCH 386. Culture and Evolution**

PSYCH 280. (Prerequisites enforced at registration.) (3). (SS). *May not be repeated for credit.*

**PSYCH 387. Topics in Applied Social Psychology**

PSYCH 280. (Prerequisites enforced at registration.) (3). (SS). *May be elected twice for credit. May be elected more than once in the same term.*

**PSYCH 388. Negotiation**

PSYCH 280 OR PSYCH 395. (Prerequisites enforced at registration.) (3). (SS). *May not be repeated for credit.*

**PSYCH 389. Psychology and Law**

PSYCH 280. (Prerequisites enforced at registration.) (3). (SS). *May not be repeated for credit.*

**PSYCH 390. Topics in Personality and Social Contexts**

PSYCH 280 OR PSYCH 290. (Prerequisites enforced at registration.) (3). (SS). *May be elected twice for credit. May be elected more than once in the same term.*

**PSYCH 391. Advanced Laboratory in Personality**

One of STATS 250, STATS 280, STATS 425, MATH 425; and one of PSYCH 111, 112, 114, or 115. (Prerequisites enforced at registration.) PSYCH 290. (3). *May not be repeated for credit. Satisfies a Psychology research-based laboratory requirement.*

**PSYCH 393. Political Psychology**

Introductory Psychology. A prior course or interest in History or Political Science is useful, though not required. (3). (SS). *May not be repeated for credit.*

**PSYCH 394 / WOMENSTD 394. Sex, Sexuality, and Public Policy**

PSYCH 111 or any WOMENSTD course. (3). (SS). *May not be repeated for credit.*

**PSYCH 395. Organizational Psychology**

One of: PSYCH 111 or 112 or 114 or 115 or 116. (Prerequisites enforced at registration.) (4). (SS). *May not be repeated for credit.*

**PSYCH 400. Special Problems in Psychology as a Natural Science**

One of the following: PSYCH 111, 112, 114, or 115; and 230, or 240. (Prerequisites enforced at registration.) (1 - 4). (BS). *May be repeated for a maximum of 12 credits. May be elected more than once in the same term.*

**PSYCH 401. Special Problems in Psychology as a Social Science**

One of the following: PSYCH 111, 112, 114, or 115. (Prerequisites enforced at registration.) (1 - 4). *May be repeated for a maximum of 12 credits. May be elected more than once in the same term. Only 6 credits of PSYCH 400, 401, 402 combined may be counted toward a concentration plan in Psychology, and a maximum of 12 credits may be counted toward graduation.*

**PSYCH 402. Special Problems in Psychology**

One of the following: PSYCH 111, 112, 114, or 115. (Prerequisites enforced at registration.) One of the following: PSYCH 230, 240, 250, 260, 270, 280, or 290. (2 - 4). *May be repeated for a maximum of 12 credits. Only 6 credits of PSYCH 400, 401, 402 combined may be counted toward a concentration plan in Psychology, and a maximum of 12 credits may be counted toward graduation.*

**PSYCH 404. Field Practicum**

Consent of instructor required. One of the following: PSYCH 230, 240,

250, 260, 270, 280, or 290, and permission of instructor. (1 - 4). (EXPERIENTIAL). May be repeated for a maximum of 8 credits. Credit is granted for a combined total of fifteen credits elected from Experiential lab courses. May be used as an experiential lab in the Psychology major but not the major in Biopsychology, Cognition, and Neuroscience; credits may not be used toward either major. F, W, Sp/Su, Sp, Su. Offered mandatory credit/no credit.

**PSYCH 405. Field Practicum in a University Setting**

Consent of instructor required. One of the following: PSYCH 230, 240, 250, 260, 270, 280, or 290, and permission of instructor. (1 - 4). (EXPERIENTIAL). May be repeated for a maximum of 4 credits. Credit is granted for a combined total of fifteen credits elected from Experiential lab courses. May be used as an experiential lab in the Psychology major but not the major in Biopsychology, Cognition, and Neuroscience; credits may not be used toward either major. F, W, Sp/Su, Sp, Su. Offered mandatory credit/no credit.

**PSYCH 408. Perception, Science, and Reality**

One of the following: PSYCH 111, 112, 114, or 115. (3). (BS). May not be repeated for credit.

**PSYCH 411 / ALA 429 / SOC 471. IGR Senior Capstone: Social Justice in the Real World**

Consent of instructor required. UC/SOC 320/321/PSYCH 310/311 or CASC Foundations and 2 related courses in social movements or activism. (3). May not be repeated for credit.

**PSYCH 413. A History of Modern Psychology**

Psych or BBCS or Neuroscience concentrator. (Prerequisites enforced at registration.) (3). May not be repeated for credit. Rackham credit requires additional work.

**PSYCH 414 / WOMENSTD 452. Sexuality and Science**

One of: PSYCH 111 or PSYCH 112 or any WOMENSTD course. (Prerequisites enforced at registration.) (3). (BS). May not be repeated for credit. Rackham credit requires additional work.

**PSYCH 418 / RELIGION 448. Psychology and Spiritual Development**

One of the following: PSYCH 111, 112, 114, or 115, and permission of instructor. (3). May not be repeated for credit.

**PSYCH 420. Faculty Directed Advanced Tutorial Reading for Psychology as a Natural Science**

Consent of instructor required. Proposal required. Approval of the instructor and Psychology Committee on undergraduate Studies and PSYCH 230, 240, 335, or 345. (1 - 4). (INDEPENDENT). May be repeated for a maximum of 6 credits.

**PSYCH 421. Faculty Directed Advanced Tutorial Reading for Psychology as a Social Science**

Consent of instructor required. Proposal required. Approval of the instructor and Psychology Committee on Undergraduate Studies and one of the following: PSYCH 230, 240, 250, 260, 270, 280, or 290. (1 - 4). (INDEPENDENT). May be repeated for a maximum of 6 credits.

**PSYCH 422. Faculty Directed Advanced Research for Psychology as a Natural Science**

Consent of instructor required. Proposal required. Approval of the instructor and Psychology Committee on undergraduate Studies. STATS 250 or STATS 280 or STATS 425; and one of the following: PSYCH 302, 331, 341, or 342. (1 - 4). (BS). (INDEPENDENT). May be repeated for a maximum of 6 credits. A total of six credits of Psychology letter-graded Research-based courses may be counted towards the Psychology concentration.

**PSYCH 423. Faculty Directed Advanced Research for Psychology as a Social Science**

Consent of instructor required. Proposal required. Approval of the instructor and Psychology Committee on Undergraduate Studies. STATS 250 or STATS 280 or STATS 425; and one of the following: PSYCH 302, 303, 331, 341, 342, 351, 361, 371, 381, 383, or 391. (3 - 4). (INDEPENDENT). May be repeated for a maximum of 6 credits. A total of six credits of Psychology letter-graded Research-based courses may be counted towards the Psychology concentration.

**PSYCH 424. Senior Honors Research I for Psychology as a Natural Science**

Consent of instructor required. Acceptance into the Psychology Honors Program, STATS 250, STATS 280, or STATS 425; and prior research experience. (2 - 4). (BS). May not be repeated for credit.

**PSYCH 426. Senior Honors Research II for Psychology as a Natural Science**

Consent of instructor required. Permission of the Psychology Honors Program Director, PSYCH 424 and good standing in the Psychology Honors Program. (2 - 4). (BS). May not be repeated for credit.

**PSYCH 428. Senior Thesis: Research in Psychology as a Natural Science**

Consent of department required. Senior standing. STATS 250 or STATS 280, and prior research experience. (2 - 4). (BS). (INDEPENDENT). May be repeated for a maximum of 8 credits. No credit granted to those who have completed or are enrolled in PSYCH 424, 425, 426, or 427.

**PSYCH 429. Senior Thesis: Research in Psychology as a Social Science**

Consent of department required. Senior standing. STATS 250 or STATS 280, and prior research experience. (2 - 4). (INDEPENDENT). May be repeated for a maximum of 8 credits. No credit granted to those who have completed or are enrolled in PSYCH 424, 425, 426, or 427.

**PSYCH 430. Advanced Topics in Biopsychology**

PSYCH 230 or PSYCH 335. (Prerequisites enforced at registration.) (3). (BS). May be elected twice for credit. May be elected more than once in the same term. Rackham credit requires additional work.

**PSYCH 431. Advanced Topics in Behavioral Neuroscience**

PSYCH 230. (Prerequisites enforced at registration.) (3). (BS). May be elected twice for credit. May be elected more than once in the same term. Rackham credit requires additional work.

**PSYCH 432. Advanced Topics in Evolutionary and Comparative Psychology**

*PSYCH 335. (Prerequisites enforced at registration.) (3). (BS). May be elected twice for credit. May be elected more than once in the same term. Rackham credit requires additional work.*

**PSYCH 433. Advanced Topics in Neuroscience**

*PSYCH 230 or BIOLOGY 225. (Prerequisites enforced at registration.) (3). (BS). May be elected twice for credit. May be elected more than once in the same term. Rackham credit requires additional work.*

**PSYCH 434. Neuroscience of Fear and Anxiety**

*PSYCH 230 & one of the following: PSYCH 330, 332, 333, 334, 335, 336, 337, 338, or 339. (Prerequisites enforced at registration.) (3). (BS). May not be repeated for credit. Rackham credit requires additional work.*

**PSYCH 437. Current Topics in Biopsychology**

*PSYCH 230, 240, or 345. (Prerequisites enforced at registration.) (3). (BS). May be elected twice for credit.*

**PSYCH 440. Advanced Topics in Cognitive Neuroscience**

*PSYCH 240. (Prerequisites enforced at registration.) (3). (BS). May be elected twice for credit. May be elected more than once in the same term.*

**PSYCH 441. Neuroscience and Society**

*PSYCH 240. (Prerequisites enforced at registration.) (3). (BS). May not be repeated for credit. Rackham credit requires additional work.*

**PSYCH 442. Cognitive Neuroscience of Expertise**

*PSYCH 240. (Prerequisites enforced at registration.) (3). (BS). May not be repeated for credit. Rackham credit requires additional work.*

**PSYCH 443. Creativity**

*PSYCH 240. (Prerequisites enforced at registration.) (3). (BS). May not be repeated for credit. Rackham credit requires additional work.*

**PSYCH 444. Cognitive Aging**

*PSYCH 230 OR PSYCH 240. (Prerequisites enforced at registration.) (3). (BS). May not be repeated for credit.*

**PSYCH 445 / LING 447. Psychology of Language**

*PSYCH 240. (Prerequisites enforced at registration.) (3). (BS). May not be repeated for credit.*

**PSYCH 446. Altruism**

*PSYCH 240. (Prerequisites enforced at registration.) (3). (BS). May not be repeated for credit.*

**PSYCH 447. Current Topics in Cognition and Cognitive Neuroscience**

*PSYCH 230, 240, or 345. (Prerequisites enforced at registration.) (3). (BS). May be elected twice for credit.*

**PSYCH 448. Mathematical Psychology**

*Sophomore standing or above and a minimum of two courses offered by either MATH (except MATH 105, 110, 127, and 128) or STATS (200*

*level and above). (Prerequisites enforced at registration.) (3). (BS). (QR/2). May not be repeated for credit.*

**PSYCH 449. Decision Processes**

*One of STATS 250 or STATS 280 or STATS 425 or MATH 425. (3). (BS). May not be repeated for credit.*

**PSYCH 451. Advanced Research in Adolescent Psychology**

*PSYCH 250 and 358. (Prerequisites enforced at registration.) (3). (BS). May not be repeated for credit.*

**PSYCH 454. Developmental Cognitive Neuroscience**

*PSYCH 250. (Prerequisites enforced at registration.) (3). (BS). May not be repeated for credit.*

**PSYCH 456. Human Infancy**

*PSYCH 250. (3). May not be repeated for credit.*

**PSYCH 457. Current Topics in Developmental Psychology**

*One of the following: PSYCH 111, 112, 114, or 115. (Prerequisites enforced at registration.) PSYCH 250. (3). May be elected twice for credit.*

**PSYCH 459. Psychology of Aging**

*PSYCH 250. (Prerequisites enforced at registration.) (3). (BS). May not be repeated for credit.*

**PSYCH 467. Current Topics in Organizational Psychology**

*One of the following: PSYCH 111, 112, 114, or 115. (Prerequisites enforced at registration.) PSYCH 260. (3). May be elected twice for credit.*

**PSYCH 470. Mood Disorders**

*PSYCH 270. (Prerequisites enforced at registration.) (3). May not be repeated for credit.*

**PSYCH 471. Resilience in Child and Adolescent Development**

*PSYCH 373. (Prerequisites enforced at registration.) (3). May not be repeated for credit.*

**PSYCH 474. Introduction to Behavior Therapy**

*PSYCH 270. (Prerequisites enforced at registration.) (3). May not be repeated for credit.*

**PSYCH 475. Traumatic Stress**

*PSYCH 270. (Prerequisites enforced at registration.) (3). May not be repeated for credit.*

**PSYCH 477. Current Topics in Clinical Psychology**

*One of the following: PSYCH 111, 112, 114, or 115. (Prerequisites enforced at registration.) PSYCH 270. (3). May be elected twice for credit.*

**PSYCH 478. Addictive Behavior**

PSYCH 270. (Prerequisites enforced at registration.) (3). May not be repeated for credit.

**PSYCH 487. Current Topics in Social Psychology**

One of the following: PSYCH 111, 112, 114, or 115. (Prerequisites enforced at registration.) PSYCH 280. (3). May be elected four times for credit. May be elected more than once in the same term.

**PSYCH 488 / SOC 465 / WOMENSTD 465. Sociological Analysis of Deviance**

One introductory course in sociology. (4; 3 in the half-term). May not be repeated for credit.

**PSYCH 494 / WOMENSTD 494. Adolescent Sexuality**

(3). May not be repeated for credit. Rackham credit requires additional work.

**PSYCH 497. Current Topics in Personality and Social Contexts**

One of the following: PSYCH 111, 112, 114, or 115. (Prerequisites enforced at registration.) PSYCH 290. (3). May be elected twice for credit. May be elected more than once in the same term.

**PSYCH 531. Advanced Topics in Biopsychology**

PSYCH 230. (3). (BS). May be repeated for credit. May be elected more than once in the same term.

**PSYCH 532 / ANATOMY 541 / PHYSIOL 541. Mammalian Reproductive Physiology**

PHYSIOL 201 or PHYSIOL 502 or BIOL 225. (4). (BS). May not be repeated for credit. W.

**PSYCH 571. Advanced Topics in Clinical Psychology**

Consent of instructor required. PSYCH 270 and permission of instructor. (3). May be repeated for credit. May be elected more than once in the same term.

## Courses in LSA Residential College

### RC Fine Arts (RCARTS)

**RCARTS 268. Introduction to Visual Thinking: Adventures in Creativity**

(4). (CE). May not be repeated for credit.

**RCARTS 285. Photography**

(4). (CE). May not be repeated for credit.

**RCARTS 286. Sculpture**

(4). (CE). May not be repeated for credit.

**RCARTS 287. Printmaking**

(4). (CE). May not be repeated for credit.

**RCARTS 288. Beginning Drawing**

(4). (CE). May not be repeated for credit.

**RCARTS 289. Ceramics**

(4). (CE). May not be repeated for credit.

**RCARTS 385. Interdisciplinary Photographic Applications**

RCARTS 285. (4). (CE). May not be repeated for credit.

**RCARTS 389. Ceramics Theory and Criticism**

RCARTS 289. (4). (CE). May not be repeated for credit.

### RC American Sign Language (RCASL)

**RCASL 100. Introduction to Deaf Culture**

(3). May not be repeated for credit.

**RCASL 101. Elementary American Sign Language**

Prior or concurrent enrollment in RCCORE 102 (or LING 140). (4). May not be repeated for credit.

**RCASL 102. Elementary American Sign Language II**

RCASL 101 (or RCCORE 103 or LING 150). (4). May not be repeated for credit.

**RCASL 201. Intermediate American Sign Language**

RCASL 102 (or RCCORE 104 or LING 151). (4). May not be repeated for credit.

**RCASL 202. Intermediate American Sign Language II**

RCASL 201 (or RCCORE 203 or LING 250). (4). (Lang Req). May not be repeated for credit.

### RC Core Courses (RCCORE)

**RCCORE 100. First Year Seminar**

SWC Writing Assessment. Only first-year students, including those with sophomore standing, may pre-register for First-Year Seminars. All others need permission of instructor. (4). (FYWR). May not be repeated for credit.

**RCCORE 205. Independent Study**

Consent of instructor required. Sophomore standing and permission of instructor. (1 - 8). (INDEPENDENT). May be repeated for credit. Offered mandatory credit/no credit.

**RCCORE 206. Independent Study**

Consent of instructor required. (1 - 4). (INDEPENDENT). May be repeated for a maximum of 8 credits.

**RCCORE 209. Study Off-Campus**

Consent of instructor required. Sophomore standing and permission of instructor. (1 - 4). (EXPERIENTIAL). May be repeated for a maximum of 8 credits. Offered mandatory credit/no credit.

**RCCORE 301. Community-Based Internship - Semester in Detroit**

Consent of department required. (4; 2 in the half-term). (EXPERIENTIAL). May not be repeated for credit. Offered mandatory credit/no credit.

**RCCORE 302. Community-Based Internship Reflection Seminar**

Consent of department required. (3; 1 in the half-term). May not be repeated for credit.

**RCCORE 305. Independent Study**

Consent of instructor required. Junior standing and permission of instructor. (1 - 8). (INDEPENDENT). May be repeated for credit. Offered mandatory credit/no credit.

**RCCORE 306. Independent Study**

Consent of instructor required. (1 - 4). (INDEPENDENT). May be repeated for a maximum of 8 credits.

**RCCORE 307. RC Practicum in College Team Teaching**

Consent of instructor required. Upperclass standing and permission of instructor. (1 - 4). (INDEPENDENT). May be repeated for credit.

**RCCORE 308. Directed Peer Tutoring**

Consent of instructor required. (1 - 2). (EXPERIENTIAL). May be repeated for a maximum of 4 credits. Offered mandatory credit/no credit.

**RCCORE 309. Study Off-Campus**

Consent of instructor required. Junior standing and permission of instructor. (1 - 16). (EXPERIENTIAL). May be repeated for credit. Offered mandatory credit/no credit.

**RCCORE 334. Special Topics**

(1 - 4). May be repeated for a maximum of 12 credits. May be elected more than once in the same term.

**RCCORE 405. Independent Study**

Consent of instructor required. Senior standing. (1 - 8). (INDEPENDENT). May be repeated for credit. Offered mandatory credit/no credit.

**RCCORE 406. Independent Study**

Consent of instructor required. (1 - 4). (INDEPENDENT). May be repeated for a maximum of 8 credits.

**RCCORE 409. Study Off-Campus**

Consent of instructor required. Senior standing. (1 - 16). (EXPERIENTIAL). May be repeated for credit. Offered mandatory credit/no credit.

**RCCORE 410. Senior Project**

Consent of instructor required. (1 - 8). (INDEPENDENT). May be repeated for credit.

**RCCORE 489. Honors Independent Research**

Permission of instructor. (1 - 4). (INDEPENDENT). May not be repeated for credit. Continuing Course. Y grade can be reported at end of the first-term to indicate work in progress. At the end of the second term of RCCORE 490, the final grade is posted for both term's elections.

**RCCORE 490. Honors Thesis**

Consent of instructor required. (1 - 4). (INDEPENDENT). May be repeated for a maximum of 8 credits.

**RC Humanities (RCHUMS)****RCHUMS 217. Fathers and Sons**

(3). (HU). May not be repeated for credit.

**RCHUMS 218. The Hero as Outsider, Outcast or Outlaw**

(3). (HU). May not be repeated for credit.

**RCHUMS 220. Narration**

Consent of instructor required. (4). (CE). May not be repeated for credit.

**RCHUMS 221. The Writing of Poetry**

Permission of instructor. (4). (CE). May not be repeated for credit.

**RCHUMS 235. Topics in World Dance**

(3). (HU). May not be repeated for credit.

**RCHUMS 236 / SAC 236. The Art of the Film**

(4). (HU). May not be repeated for credit.

**RCHUMS 237 / AMCULT 237 / HISTART 237. On the Margins of the Art World - Self-Taught Artists in the U.S.**

(3). (ID). May not be repeated for credit.

**RCHUMS 242. Creative Adaptation**

Completion of the First-Year Writing Requirement. (4). (CE). May not be repeated for credit. W.

**RCHUMS 249. Foundations of Music**

(4). (CE). (EXPERIENTIAL). May not be repeated for credit.

**RCHUMS 250. Chamber Music**

(1 - 2; 1 in the half-term). (CE). May be repeated for a maximum of 8 credits. May be elected more than once in the same term. Offered mandatory credit/no credit.

**RCHUMS 251. Topics in Music**

(3 - 4). (HU). May be repeated for a maximum of 12 credits. May be elected more than once in the same term.

**RCHUMS 252. Topics in Musical Expression**

(2 - 4). (CE). May be repeated for a maximum of 12 credits. May be elected more than once in the same term.

**RCHUMS 253. Choral Ensemble**

(1). (CE). May be repeated for credit. Offered mandatory credit/no credit.

**RCHUMS 258. Afro-Cuban Drumming and Styles**

(4). (CE). May not be repeated for credit.

**RCHUMS 259. Musical Improvisation**

(4). (CE). May be elected twice for credit.

**RCHUMS 260 / DANCE 241. The Art of Dance: An Introduction to American and European Dance History, Aesthetics, and Criticism**

(3). (HU). May not be repeated for credit.

**RCHUMS 272 / HISTART 272. Modern Art: Avant-Garde to Contemporary**

(4; 3 in the half-term). (HU). May not be repeated for credit.

**RCHUMS 273 / ASIAN 273. North Korea: Real and Imagined**

(4). (ID). May not be repeated for credit.

**RCHUMS 275. The Western Mind in Revolution: Six Interpretations of the Human Condition**

(4). (HU). May not be repeated for credit.

**RCHUMS 280 / ENGLISH 245 / THTREMUS 211. Introduction to Drama and Theatre**

(3; 2 in the half-term). (HU). May not be repeated for credit. No credit granted to those who have completed or are enrolled in RCHUMS 281.

**RCHUMS 281. Introduction to Comedy and Tragedy**

(4). (HU). May not be repeated for credit. No credit granted to those who have completed or are enrolled in RCHUMS 280.

**RCHUMS 282. Drama Interpretation I: Actor and Text**

(4). (CE). May not be repeated for credit.

**RCHUMS 290. The Experience of Arts and Ideas in the Twentieth Century**

(4). (HU). May not be repeated for credit.

**RCHUMS 291. The Experience of Arts and Ideas in the Nineteenth Century**

(4). (HU). May not be repeated for credit.

**RCHUMS 301 / ENS 405. Beginning Indonesian Orchestra**

(1). May be repeated for credit.

**RCHUMS 302 / ENS 406. Beginning Indonesian Orchestra**

ENS 405. (1). May be repeated for credit.

**RCHUMS 303 / ENS 407. Intermediate Indonesian Orchestra**

One semester of gamelan. (1 - 2). May be repeated for credit.

**RCHUMS 305. Cultural Confrontation in the Arts**

Sophomore standing. (3). (HU). (R&E). May not be repeated for credit.

**RCHUMS 306. History of Writing in the West: The Book and the Body**

(3). (HU). May not be repeated for credit.

**RCHUMS 307 / GERMAN 309 / HONORS 309 / JAZZ 309. Imagination**

(3). (HU). May not be repeated for credit.

**RCHUMS 308 / ASIAN 308. Arts and Ideas of Modern South and Southeast Asia**

(3). (HU). (R&E). May not be repeated for credit.

**RCHUMS 309. Classical Sources of Modern Culture**

(4). (HU). May not be repeated for credit.

**RCHUMS 310 / MEMS 310. Pagans, Christians, Barbarians in Late Antiquity and the Early Middle Ages**

(3). (HU). May not be repeated for credit.

**RCHUMS 312 / SLAVIC 312. Central European Cinema**

A knowledge of Russian is not required. (3). (HU). (R&E). May not be repeated for credit. Taught in English.

**RCHUMS 313 / SAC 313 / SLAVIC 313. Russian and Ukrainian Cinema**

(3). (HU). May not be repeated for credit. F.

**RCHUMS 314 / MEMS 314. The Figure of Rome in Shakespeare and 16th-Century Painting**

(3). (HU). May not be repeated for credit.

**RCHUMS 318. Critical Approaches to Literature**

(4). (HU). May be repeated for credit.

**RCHUMS 320. Advanced Narration**

Consent of instructor required. RCHUMS 220. (4). (CE). May not be repeated for credit.

**RCHUMS 321. Advanced Poetry Writing**

Consent of instructor required. RCHUMS 221. (4). (CE). May not be repeated for credit.

**RCHUMS 325. Creative Writing Tutorial**

Consent of instructor required. RCHUMS 320/221. (4). (CE). May be elected twice for credit.

**RCHUMS 326. Creative Writing Tutorial**

Consent of instructor required. RCHUMS 325 and permission of instructor. (4). May be repeated for credit.

**RCHUMS 330 / ISLAM 330 / NEAREAST 330 / RELIGION 330. The Arabian Nights**

(3). (HU). May not be repeated for credit.

**RCHUMS 334. Special Topics in the Humanities**

(3 - 4). (HU). May be elected twice for credit. May be elected more than once in the same term.

**RCHUMS 337 / ENVIRON 337. Children Under Fire: Narratives of Sustainability**

(3). (HU). May not be repeated for credit.

**RCHUMS 338. Growing Up Near the Great Lakes: Reading and Writing Landscapes of Childhood**

(3). (HU). May not be repeated for credit.

**RCHUMS 340. Four Interdisciplinary Studies in 19th- & 20th-Century Intellectual History: Psychoanalysis, Mysticism, Nihilism and Marxism**

Junior/senior standing. (4). (HU). May not be repeated for credit.

**RCHUMS 341. Empowering Community Through the Arts**

(3). (HU). May be elected twice for credit.

**RCHUMS 344 / HISTART 342. Reason and Passion in the 18th Century Europe**

Sophomore standing. (3). (HU). May not be repeated for credit.

**RCHUMS 346 / HISTART 352. Art and Philosophy in the Renaissance Tradition**

(3). (HU). May not be repeated for credit.

**RCHUMS 347 / RUSSIAN 347. Survey of Russian Literature**

A knowledge of Russian is not required. No knowledge of Russian literature or history is presupposed. (4). (HU). May not be repeated for credit.

**RCHUMS 348 / RUSSIAN 348. Survey of Russian Literature**

A knowledge of Russian is not required. (4). (HU). May not be repeated for credit.

**RCHUMS 350. Creative Musicianship**

(4). (CE). May not be repeated for credit.

**RCHUMS 351. Creative Musicianship Lab**

RCHUMS 350. (1 - 2). (CE). May be repeated for credit.

**RCHUMS 352. Found Instruments-Building, Design and Performance**

(4). (CE). May not be repeated for credit.

**RCHUMS 353. Fundamentals of Electronic Music**

(4). (CE). May not be repeated for credit.

**RCHUMS 354 / AAS 354 / HONORS 354 / WOMENSTD 354. Race and Identity in Music**

(3). (HU). (R&E). May not be repeated for credit.

**RCHUMS 356. The Symphonic Century: Music and Revolution in the****19th Century**

(3). (HU). May not be repeated for credit.

**RCHUMS 358 / ASIAN 357. Sensuous Pleasures: China's Forbidden Novel, Jin Ping Mei**

Sophomore standing or higher. (3). (HU). May not be repeated for credit.

**RCHUMS 360. Existentialism**

Junior/senior standing. (4). (HU). May not be repeated for credit.

**RCHUMS 364. Nietzsche's Last Year: Final Vision and Mental Collapse**

(3). (HU). May not be repeated for credit.

**RCHUMS 365 / RELIGION 360. Experiences of Atheism: A History of Skepticism and Unbelief**

(3). (HU). May not be repeated for credit.

**RCHUMS 371. Political Modernism: The Artist in the Nightmare of History: Picasso, Eliot, Orwell**

(3). (HU). May not be repeated for credit.

**RCHUMS 372. The Subject in the Aftermath of Revolution**

(3). (HU). May not be repeated for credit.

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

(3). (HU). May not be repeated for credit.

**RCHUMS 374 / ASIAN 356. Contemporary Chinese Performance Culture**

(3). (HU). May not be repeated for credit.

**RCHUMS 381. Shakespeare on the Stage**

RCHUMS 280. (4). (HU). May not be repeated for credit.

**RCHUMS 383. Ibsen and Strindberg**

Previous acting, Shakespeare course. (4). (HU). May not be repeated for credit.

**RCHUMS 386 / MEMS 421. Medieval Drama**

(4). May not be repeated for credit.

**RCHUMS 387. Renaissance Drama**

(4). May not be repeated for credit.

**RCHUMS 389. The Modern Theatre**

(4). (HU). May be elected three times for credit.

**RCHUMS 390. Special Period and Place Drama**

Consent of instructor required. RCHUMS 280 and permission of instructor. (4). May be repeated for credit.

**RCHUMS 425. Creative Writing Tutorial**

*Consent of instructor required. Restricted to RC Creative Writing concentrators. (4). May be elected twice for credit.*

**RCHUMS 426. Creative Writing Tutorial**

*Consent of instructor required. (4). May be repeated for credit.*

**RCHUMS 444. George Balanchine and the Transformation of American Dance**

*RCHUMS 260 or 235 or DANCE 220; Upperclass standing. (3). May not be repeated for credit.*

**RCHUMS 481. Play Production Seminar**

*Consent of instructor required. (4). May be elected three times for credit.*

**RCHUMS 482. Drama Interpretation II: Performance Workshop**

*RCHUMS 280 and either RCHUMS 282 or playwriting. (4). May not be repeated for credit.*

**RCHUMS 483. Environmental Theater Production Workshop in the Arboretum**

*Consent of instructor required. Previous acting, Shakespeare courses. (2 - 4 in the half-term). May be elected four times for credit.*

**RCHUMS 485. Special Drama Topics**

*Consent of instructor required. Sophomore standing. (1 - 2). May be repeated for a maximum of 4 credits. May be elected more than once in the same term.*

**RC Interdivisional (RCIDIV)****RCIDIV 302. Advanced Issues in Science, Technology, Medicine, and Society**

*(3 - 4). (ID). May be elected twice for credit. May be elected more than once in the same term.*

**RCIDIV 305. The Literature of Environmental and Social Justice**

*(3). (ID). May not be repeated for credit.*

**RCIDIV 350. Special Topics**

*(1). May be repeated for a maximum of 6 credits. May be elected more than once in the same term. Offered mandatory credit/no credit.*

**RCIDIV 351. Special Topics**

*(2). May be repeated for a maximum of 8 credits. May be elected more than once in the same term. Offered mandatory credit/no credit.*

**RCIDIV 390 / ENVIRON 390. Environmental Activism: Citizenship in a Republic**

*It is best to have at least one environmental course prior to this class. (3). (ID). May not be repeated for credit.*

**RC Languages (RCLANG)****RCLANG 190. Intensive French I**

*(8). May not be repeated for credit. No credit granted to those who have completed or are enrolled in FRENCH 100, 101, 102, or 103. Pass/Fail with Narrative Evaluation.*

**RCLANG 191. Intensive German I**

*(8). May not be repeated for credit. No credit granted to those who have completed or are enrolled in GERMAN 100, 101, 102, or 103. Conducted in German. Pass/Fail with Narrative Evaluation.*

**RCLANG 193. Intensive Russian I**

*Consent of instructor required. (8). May not be repeated for credit. Credit is granted from only one among RUSSIAN 103, 111 123, or RCLANG 193. No credit is granted to those who are enrolled or have completed RUSSIAN 101 or 102. Pass/Fail with Narrative Evaluation.*

**RCLANG 194. Intensive Spanish I**

*(8). May not be repeated for credit. No credit granted to those who have completed or are enrolled in SPANISH 100, 101, 102, or 103. Pass/Fail with Narrative Evaluation.*

**RCLANG 195. Intensive Latin I**

*(8). May not be repeated for credit. No credit granted to those who have completed or are enrolled in LATIN 195. Pass/Fail with Narrative Evaluation.*

**RCLANG 196. Intensive Japanese I**

*Consent of instructor required. (10). May not be repeated for credit. No credit granted to those who have completed or are enrolled in ASIANLAN 124, 125, 126, 127 or 129. Pass/Fail with Narrative Evaluation.*

**RCLANG 204. Spanish Language Internship Project I**

*Consent of instructor required. (1). (EXPERIENTIAL). May be elected eight times for credit. Offered mandatory credit/no credit.*

**RCLANG 290. Intensive French II**

*RCLANG 190. (8). (Lang Req). May not be repeated for credit. No credit granted to those who have completed or are enrolled in FRENCH 230, 231, or 232. Pass/Fail with Narrative Evaluation.*

**RCLANG 291. Intensive German II**

*RCLANG 191 or GERMAN 100, 102, 103, or 221. (8). (Lang Req). May not be repeated for credit. No credit granted to those who have completed or are enrolled in GERMAN 221, 230, 231, or 232. Pass/Fail with Narrative Evaluation.*

**RCLANG 293. Intensive Russian II**

*Consent of instructor required. One of RCLANG 193, RUSSIAN 101 and 102 or RUSSIAN 103. (8). (Lang Req). May not be repeated for credit. Pass/Fail with Narrative Evaluation.*

**RCLANG 294. Intensive Spanish II**

*RCLANG 194. (8). (Lang Req). May not be repeated for credit. No credit granted to those who have completed or are enrolled in SPANISH 230,*



231, or 232. Pass/Fail with Narrative Evaluation.

**RCLANG 295. Intensive Latin II**

LATIN 102, 103, or 193/504, or RCLANG 195. (8). (Lang Req). May not be repeated for credit. Pass/Fail with Narrative Evaluation.

**RCLANG 296. Intensive Japanese II**

Consent of instructor required. ASIANLAN 129 or RCLANG 196. (10). (Lang Req). May not be repeated for credit. No credit granted to those who have completed or are enrolled in ASIANLAN 225, 226, and 227. Pass/Fail with Narrative Evaluation.

**RCLANG 304. PALMA: Spanish in the Community**

RC students must have passed the RC proficiency test; non-RC students must have completed Spanish 276. (1). (EXPERIENTIAL). May be elected four times for credit. Offered mandatory credit/no credit.

**RCLANG 306. Spanish Language Internship Project II**

Consent of instructor required. (2 - 3). (EXPERIENTIAL). May not be repeated for credit.

**RCLANG 310. Accelerated Review-French**

Permission of instructor. (4). May not be repeated for credit. Pass/Fail with Narrative Evaluation.

**RCLANG 314. Accelerated Review-Spanish**

(4). May not be repeated for credit. Pass/Fail with Narrative Evaluation.

**RCLANG 320. Seminaire en francais**

Consent of instructor required. Proficiency test and permission of instructor. (4). May be repeated for credit.

**RCLANG 321. Readings in German**

Consent of instructor required. Proficiency test. (4). May be repeated for credit. May be elected more than once in the same term.

**RCLANG 323. Russian Readings**

Proficiency in Russian (by RC standards). (4). May not be repeated for credit.

**RCLANG 324. Readings in Spanish**

Consent of instructor required. Proficiency test. (4). May be repeated for credit.

**RCLANG 325 / LATIN 325. Readings in Latin Drama: From Text to Performance**

One of RCLANG 295, LATIN 194, 195, 232, or 233, or permission of instructor. (4). May be elected twice for credit.

**RCLANG 334. Tutoring Latino/a Adults and Children: Spanish in the Community**

Must pass RC Spanish Proficiency Test. (2 - 3; 2 in the half-term). (EXPERIENTIAL). May be elected twice for credit.

## RC Natural Sciences (RCNSCI)

**RCNSCI 110 / AOSS 171 / BIOLOGY 110 / EARTH 171 / ENSCEN 171 / ENVIRON 110. Introduction to Global Change: The Science Behind Sustainability**

(4). (NS). (BS). May not be repeated for credit. Credit is granted for a combined total of 17 credits elected in introductory biology.

**RCNSCI 202 / ENVIRON 201. Ecological Issues**

(4). (NS). (BS). May not be repeated for credit.

**RCNSCI 260. Science and Societal Issues: The Immune System**

Introductory science course. (4). (NS). (BS). May not be repeated for credit.

**RCNSCI 301. Advanced Topics in Science, Technology, Medicine, and Society**

(3 - 4). (NS). (BS). May be elected twice for credit. May be elected more than once in the same term.

**RCNSCI 419 / NRE 574 / PUBPOL 519. Sustainable Energy Systems**

Senior standing; college-level course in Math or Economics or physical science. (3). May not be repeated for credit.

## RC Social Sciences (RCSSCI)

**RCSSCI 211 / ENVIRON 211. Social Sciences and Environmental Problems**

(4). (SS). May not be repeated for credit.

**RCSSCI 220 / SOC 220. Political Economy**

(4). (SS). May not be repeated for credit.

**RCSSCI 226. Globalization: Social Theory and Practice**

(4). (SS). May not be repeated for credit.

**RCSSCI 230. Alternative Approaches to Economic Development**

(4). (SS). May not be repeated for credit.

**RCSSCI 260. Theorizing Knowledge in the Social Sciences**

(3). (SS). May not be repeated for credit.

**RCSSCI 275 / HISTORY 285. Science, Technology, Medicine, and Society**

(4). (SS). May not be repeated for credit.

**RCSSCI 290. Social Science Basic Seminar**

(1). May not be repeated for credit. Offered mandatory credit/no credit.

**RCSSCI 301 / SOC 313. Social Science Theory I: From Social Contract to Oedipus Complex**

At least one 200-level social science course. (4). (SS). May not be repeated for credit. F.

**RCSSCI 327 / ANTHRCUL 327 / WOMENSTD 307. Critical Theory in Medicine and Healing**

One course in ANTHRCUL or RCSSCI or WOMENSTD 240 or WOMENSTD with an SS designation. (4). (SS). May not be repeated for credit.

**RCSSCI 330 / AAS 330. Urban and Community Studies I**

(4). May not be repeated for credit.

**RCSSCI 343 / AAS 347 / SOC 335. Urban Inequality in America**

One course in introductory sociology. (4; 3 in the half-term). (SS). May not be repeated for credit. No credit granted to students who are enrolled in or have completed SOC 435 or SOC 535.

**RCSSCI 344 / HISTORY 344. The History of Detroit in the 20th Century**

Sophomore standing. (4). (SS). May not be repeated for credit.

**RCSSCI 346 / AAS 345 / ASIAN 345. Genocide and Trauma in Southeast Asia, Africa, and Europe in the Twentieth Century**

(3). (HU). May not be repeated for credit.

**RCSSCI 357 / HISTORY 345. History and Theory of Punishment**

(4). May not be repeated for credit.

**RCSSCI 360. Social Science Junior Seminar**

Upperclass standing. (3 - 4). (SS). May be repeated for a maximum of 12 credits. May be elected more than once in the same term.

**RCSSCI 365. Excellence, Equity, and the Politics of Education**

(4). (SS). May not be repeated for credit.

**RCSSCI 387 / ASIAN 387 / POLSCI 345. Hate in Asia: Cultures of Conflict and Reconciliation**

At least one course on the history, politics, or culture of Asia. (4). (ID). May not be repeated for credit.

**RCSSCI 390 / EDUC 390 / ELI 390 / LING 390. Community-Engaged Learning in ESL Teaching Contexts**

(3). (EXPERIENTIAL). May be elected three times for credit.

**RCSSCI 395 / AMCULT 361 / EDUC 395 / ELI 395 / LATINOAM 361 / LING 391. Principles and Practices of Teaching ESL in Migrant Communities**

(3). (EXPERIENTIAL). May be elected three times for credit.

**RCSSCI 396 / AMCULT 362 / EDUC 396 / ELI 396 / LATINOAM 362 / LING 396. Migrant Community Outreach and ESL Teaching Practicum**

ELI 395; completed with a minimum grade of C or better. (Prerequisites enforced at registration.) (2 - 3). (EXPERIENTIAL). May be elected three times for credit.

**RCSSCI 428 / ANTHRCUL 428 / WOMENSTD 428. Sex Panics in the US and UK since 1890**

One course in WOMENSTD or ANTHRCUL or RCSSCI, SOC, or HISTORY.

(3). May not be repeated for credit.

**RCSSCI 460. Social Science Senior Seminar**

Senior standing. (4). May be repeated for credit.

**RCSSCI 461. Senior Seminar**

(3). May not be repeated for credit.

## Courses in LSA Romance Languages & Literatures

### Catalan (CATALAN)

**CATALAN 291 / SPANISH 291. Introduction to Catalan Language and Culture**

SPANISH 275, 276, or SPANISH 277; or SPANISH 278 (or 290) or AMCULT 224 or LATINOAM 224; or RCLANG 324. (Prerequisites enforced at registration.) (3). May not be repeated for credit.

**CATALAN 330 / SPANISH 330. Advanced Catalan Language, Culture, and Society**

CATALAN 291/SPANISH 291. (Prerequisites enforced at registration.) (3). May not be repeated for credit.

**CATALAN 441 / SPANISH 441. Topics in Catalan Literature and Culture**

Nine credits chosen between SPANISH 279 and 399; or two RCLANG 324 and six credits chosen between SPANISH 279 and 399. (Prerequisites enforced at registration.) (3). May not be repeated for credit.

### French (FRENCH)

**FRENCH 100. Intensive Elementary French**

No prior instruction in French OR placement of FRENCH 101. (Prerequisites enforced at registration.) Students with any prior study of French must take the Placement Test. (8 in the half-term). May not be repeated for credit. No credit granted to those who are enrolled in or have completed FRENCH 101, 102, 103, 113 or RCLANG 190.

**FRENCH 101. Elementary French**

No prior instruction in French OR placement of FRENCH 101. (Prerequisites enforced at registration.) Students with any prior study of French must take the Placement Test. (4). May not be repeated for credit. No credit granted to those who are enrolled in or have completed FRENCH 100, 113, or RCLANG 190.

**FRENCH 102. Elementary French, Continued**

FRENCH 101 (completed with a minimum grade of C- or better). (Prerequisites enforced at registration.) (4). May not be repeated for credit. No credit granted to those who have completed FRENCH 100, 103, 111 or 112, or RCLANG 190.

**FRENCH 103. Review of Elementary French**

Students with any prior study of French must take the Placement Test. Only the placement score and not language coursework completed at a previous school will determine placement; RCLANG 150. (Prerequisites enforced at registration.) (4). May not be repeated for credit. No credit granted to those who are enrolled in or have completed FRENCH 100, 102, 113, or RCLANG 190.

**FRENCH 113. Accelerated Reading in French**

(4). May not be repeated for credit. No credit granted to those who have completed FRENCH 100, 101, 102, 103, 111, 112, or RCLANG 190. Completion of FRENCH 113 does not satisfy, even partially, the LSA language requirement.

**FRENCH 230. Intensive Second-Year French**

One of FRENCH 100, 102, or 103 or RCLANG 190 (completed with a minimum grade of C- or better); OR assignment of FRENCH 231 on Placement test. (Prerequisites enforced at registration.) (8 in the half-term). (Lang Req). May not be repeated for credit. No credit granted to those who have completed FRENCH 231 or 232 or RCLANG 290 or 310.

**FRENCH 231. Second-Year French**

One of FRENCH 100, 102, or 103 or RCLANG 190, (completed with a minimum grade of C- or better); OR assignment of FRENCH 231 on Placement test. (Prerequisites enforced at registration.) (4). May not be repeated for credit. No credit granted to those who have completed FRENCH 230 or RCLANG 290 or 310.

**FRENCH 232. Second-Year French, Continued**

FRENCH 231 (completed with a minimum grade of C- or better); OR RCLANG 250; OR assignment by placement test. (Prerequisites enforced at registration.) (4). (Lang Req). May not be repeated for credit. No credit granted to those who have completed FRENCH 112 or 230 or RCLANG 290 or 310.

**FRENCH 235. Advanced Practice in French**

FRENCH 230 or 232 with a grade of C- or higher; or RCLANG 290 or 310; or assignment by placement test; or FRENCH 250x AP credit. Only the placement score and not language coursework completed at a previous school will determine placement. (Prerequisites enforced at registration.) Students who receive transfer credit from for FRENCH 232 and wish to continue with their language study are strongly encouraged to take the placement exam to be certain that they are prepared for FRENCH 235. (3). May not be repeated for credit.

**FRENCH 240. French and Francophone Topics in Translation**

A knowledge of French is not required. Enrollment restricted to first- and second-year students. (3). (HU). May not be repeated for credit. Taught in English.

**FRENCH 241 / HISTART 271. Origins of Modernism: Art and Culture in Nineteenth Century France**

(4). (HU). May not be repeated for credit.

**FRENCH 270. French and Francophone Literature and Culture**

FRENCH 235 (completed with a minimum grade of C- or better). (Prerequisites enforced at registration.) (3). (HU). May be repeated for a maximum of 12 credits. May be elected more than once in the same

term.

**FRENCH 272. French and Francophone Film, Media, and Culture**

FRENCH 235 (completed with a minimum grade of C- or better). (Prerequisites enforced at registration.) (3). (HU). May be repeated for a maximum of 12 credits. May be elected more than once in the same term.

**FRENCH 274. French and Francophone Societies and Culture**

FRENCH 235 (completed with a minimum grade of C- or better). (Prerequisites enforced at registration.) (3). (HU). May be repeated for a maximum of 12 credits. May be elected more than once in the same term.

**FRENCH 276. Spoken and Written Performance in French**

FRENCH 235 (completed with a minimum grade of C- or better). (Prerequisites enforced at registration.) (3). (HU). May be repeated for a maximum of 12 credits. May be elected more than once in the same term.

**FRENCH 333. French Phonetics**

Two courses in FRENCH numbered 250-299; or FRENCH 235 and two RCLANG 320; or FRENCH 235, one course in FRENCH numbered 250-299 and one RCLANG 320. (Prerequisites enforced at registration.) (3). May not be repeated for credit.

**FRENCH 335. Composition and Stylistics**

Two courses in FRENCH numbered 250-299; or FRENCH 235 and two RCLANG 320 (RCCORE 320); or FRENCH 235, one course in FRENCH numbered 250-299 and one RCLANG 320 (RCCORE 320). (Prerequisites enforced at registration.) (3). May not be repeated for credit.

**FRENCH 337. Seminar in Translation**

Two courses in FRENCH numbered 250-299; or FRENCH 235 and two RCLANG 320 (RCCORE 320); or FRENCH 235, one course in FRENCH numbered 250-299 and one RCLANG 320 (RCCORE 320). (Prerequisites enforced at registration.) (3). May not be repeated for credit.

**FRENCH 340. French Literature in Translation**

A knowledge of French is not required. (3; 2 in the half-term). (HU). May not be repeated for credit. Taught in English.

**FRENCH 343 / HISTORY 323 / MEMS 323. French Enlightenment**

(3). (HU). May not be repeated for credit.

**FRENCH 344 / HISTORY 313. The Revolutionary Century: France, 1789-1900**

(4; 3 in the half-term). (SS). May not be repeated for credit.

**FRENCH 345 / HISTORY 314. Empire, War, and Modernity: France and the World in the 20th Century**

(4; 3 in the half-term). (SS). May not be repeated for credit.

**FRENCH 350. Special Topics in French and Francophone Studies**

Two courses in FRENCH numbered 250-299; or FRENCH 235 and two

RCLANG 320; or FRENCH 235, one course in FRENCH numbered 250-299 and one RCLANG 320. (Prerequisites enforced at registration.) (3). (HU). May be repeated for a maximum of 12 credits. May be elected more than once in the same term.

**FRENCH 361. French American Studies**

Two courses in FRENCH numbered 250-299; or FRENCH 235 and two RCLANG 320; or FRENCH 235, one course in FRENCH numbered 250-299 and one RCLANG 320. (Prerequisites enforced at registration.) (3). May be elected twice for credit. May be elected more than once in the same term. Taught in French.

**FRENCH 362. Quebec and French Canadian Studies**

Two courses in FRENCH numbered 250-299; or FRENCH 235 and two RCLANG 320; or FRENCH 235, one course in FRENCH numbered 250-299 and one RCLANG 320. (Prerequisites enforced at registration.) (3). May be elected twice for credit.

**FRENCH 363. Caribbean Studies**

Two courses in FRENCH numbered 250-299; or FRENCH 235 and two RCLANG 320; or FRENCH 235, one course in FRENCH numbered 250-299 and one RCLANG 320. (Prerequisites enforced at registration.) (3). May be elected twice for credit.

**FRENCH 364. African Studies (Maghreb)**

Two courses in FRENCH numbered 250-299; or FRENCH 235 and two RCLANG 320; or FRENCH 235, one course in FRENCH numbered 250-299 and one RCLANG 320. (Prerequisites enforced at registration.) (3). May be elected twice for credit.

**FRENCH 365. African Studies (Sub-Saharan)**

Two courses in FRENCH numbered 250-299; or FRENCH 235 and two RCLANG 320; or FRENCH 235, one course in FRENCH numbered 250-299 and one RCLANG 320. (Prerequisites enforced at registration.) (3). May be elected twice for credit.

**FRENCH 367 / MEMS 377. Literature, History, and Culture of Early Modern France**

Two courses in FRENCH numbered FRENCH 250-299; or FRENCH 235 and two RCLANG 320; or FRENCH 235, one course in FRENCH numbered FRENCH 250-299 and one RCLANG 320. (Prerequisites enforced at registration.) (3). (HU). May be repeated for a maximum of 6 credits. May be elected more than once in the same term.

**FRENCH 368. Enlightenment, Revolution, and Romanticism**

Two courses in FRENCH numbered 250-299; or FRENCH 235 and two RCLANG 320; or FRENCH 235, one course in FRENCH numbered 250-299 and one RCLANG 320. (Prerequisites enforced at registration.) (3). (HU). May be elected twice for credit.

**FRENCH 369. Literature, History, and Culture of Modernity**

Two courses in FRENCH numbered 250-299; or FRENCH 235 and two RCLANG 320; or FRENCH 235, one course in FRENCH numbered 250-299 and one RCLANG 320. (Prerequisites enforced at registration.) (3). (HU). May be elected twice for credit.

**FRENCH 372. Film and Cinema Studies**

Two courses in FRENCH numbered 250-299; or FRENCH 235 and two RCLANG 320; or FRENCH 235, one course in FRENCH numbered 250-299 and one RCLANG 320. (Prerequisites enforced at registration.) (3). May not be repeated for credit.

**FRENCH 374. Problems in Society and Social Theory**

Two courses in FRENCH numbered 250-299; or FRENCH 235 and two RCLANG 320; or FRENCH 235, one course in FRENCH numbered 250-299 and one RCLANG 320. (Prerequisites enforced at registration.) (3). May be elected twice for credit.

**FRENCH 378. Studies in Genre**

Two courses in FRENCH numbered 250-299; or FRENCH 235 and two RCLANG 320; or FRENCH 235, one course in FRENCH numbered 250-299 and one RCLANG 320. (Prerequisites enforced at registration.) (3). May be repeated for a maximum of 6 credits.

**FRENCH 379. Studies in Gender and Sexuality**

Two courses in FRENCH numbered 250-299; or FRENCH 235 and two RCLANG 320; or FRENCH 235, one course in FRENCH numbered 250-299 and one RCLANG 320. (Prerequisites enforced at registration.) (3). May be repeated for a maximum of 6 credits.

**FRENCH 380. Intermediate Business French**

One course in French numbered FRENCH 250 through 299; or FRENCH 235 and RCLANG 320; or study abroad equivalent. (Prerequisites enforced at registration.) (3). May not be repeated for credit. No credit granted to those who have completed or are enrolled in FRENCH 414. A maximum of nine credits from FRENCH 380, 381, and 414 as well as any of their equivalents accepted as transfer and/or study abroad credit can count toward the concentration or academic minor.

**FRENCH 381. Internship in France or Other Francophone Countries**

Two courses in FRENCH numbered 250-299; or FRENCH 235 and two RCLANG 320; or FRENCH 235, one course in FRENCH numbered 250-299 and one RCLANG 320. (Prerequisites enforced at registration.) FRENCH 380. (3). (EXPERIENTIAL). May be repeated for a maximum of 9 credits. May be elected more than once in the same term. A maximum of nine credits from FRENCH 380, 381, and 414 as well as any of their equivalents accepted as transfer and/or study abroad credit can count toward the concentration or academic minor. Offered mandatory credit/no credit.

**FRENCH 399. Independent Study**

Two courses in FRENCH numbered 250-299; or FRENCH 235 and two RCLANG 320; or FRENCH 235, one course in FRENCH numbered 250-299, and one RCLANG 320. (Prerequisites enforced at registration.) (1 - 3). (INDEPENDENT). May not be repeated for credit.

**FRENCH 414. Advanced Business French**

FRENCH 380; or two courses in FRENCH numbered 250-299; or FRENCH 235 and two RCLANG 320; or FRENCH 235, one course numbered FRENCH 250-299 and one RCLANG 320. (Prerequisites enforced at registration.) (3). May not be repeated for credit. No credit granted to those who have completed or are enrolled in BA 415. A maximum of nine credits from FRENCH 380, 381, and 414 as well as any of their equivalents accepted as transfer and/or study abroad

credit can count toward the concentration or academic minor.

**FRENCH 444. Readings in French and Francophone Studies (in English Translation)**

One course in FRENCH numbered 240 or above. (Prerequisites enforced at registration.) (3). May not be repeated for credit. Taught in English.

**FRENCH 491. Senior Honors Course**

Seniors, with permission of the Honors Advisor. (3). (INDEPENDENT). May not be repeated for credit. Continuing Course. Y grade can be reported at end of the first-term to indicate work in progress. At the end of the second term of FRENCH 492, the final grade is posted for both term's elections.

**FRENCH 492. Senior Honors Course**

Senior standing. (Prerequisites enforced at registration.) FRENCH 491. (3). (INDEPENDENT). May not be repeated for credit.

## Italian (ITALIAN)

**ITALIAN 101. Elementary Italian**

No prior instruction in Italian language OR placement of ITALIAN 101. (Prerequisites enforced at registration.) Students with any prior study of Italian must take the Placement Test. (4). May not be repeated for credit. No credit granted to those who are enrolled in have completed or are enrolled in ITALIAN 100, 103, or 113.

**ITALIAN 102. Elementary Italian**

ITALIAN 101 (completed with a minimum grade of C- or better). College or university transfer students with any prior study of Italian must take the Placement Test. Only the placement score and not language coursework completed at a previous school will determine placement. (Prerequisites enforced at registration.) ITALIAN 102 is NOT open to students who have begun instruction at the high school level. College or university transfer students who have received credit for one term must take the placement test to determine the appropriate course for their needs. (4). May not be repeated for credit. No credit granted to those who have completed or are enrolled in ITALIAN 100 or 103.

**ITALIAN 113. Accelerated Reading in Italian**

(4). May not be repeated for credit. No credit granted to those who have completed ITALIAN 100, 101, 102, or 103.

**ITALIAN 230. Second-Year Italian**

ITALIAN 100 or 102 or 103 (completed with a minimum grade of C- or better); or assignment of ITALIAN 231 on placement test. College or university transfer students with any prior study of Italian must take the Placement Test. Only the placement score and not language coursework completed at a previous school will determine placement. (Prerequisites enforced at registration.) (8). (Lang Req). May not be repeated for credit. No credit granted to those who are enrolled in or have completed ITALIAN 113, 231, 232 or 233.

**ITALIAN 231. Second-Year Italian**

ITALIAN 100 or 102 or 103, (completed with a minimum grade of C- or better); or assignment by placement test. College or university transfer

students with any prior study of Italian must take the Placement Test. Only the placement score and not language coursework completed at a previous school will determine placement. (Prerequisites enforced at registration.) (4). May not be repeated for credit. No credit granted to those who are enrolled or have completed ITALIAN 113, 230 or 233.

**ITALIAN 232. Second-Year Italian, Continued**

ITALIAN 231 (completed with a minimum grade of C- or better); or assignment by placement test. College or university transfer students with any prior study of Italian must take the Placement Test. Only the placement score and not language coursework completed at a previous school will determine placement. (Prerequisites enforced at registration.) (4). (Lang Req). May not be repeated for credit. No credit granted to those who are enrolled in or have completed ITALIAN 113, 230 or 233.

**ITALIAN 240. Italian Mafia**

(3). (HU). May not be repeated for credit. Taught in English.

**ITALIAN 250. Undergraduate Seminar in Italian Studies**

Enrollment restricted to first- and second- year students. No knowledge of Italian language required. (3). (HU). May not be repeated for credit.

**ITALIAN 270. Italian Literature and Culture**

ITALIAN 230, 232, or 233. (3). (HU). May be elected three times for credit. May be elected more than once in the same term.

**ITALIAN 271. Language in Action**

ITALIAN 230, 232, or 233. (3). May be elected three times for credit. May be elected more than once in the same term.

**ITALIAN 275. Multimedia Language and Culture I**

ITALIAN 230, 232, or 233. (3). May be elected twice for credit. Taught in Italian.

**ITALIAN 305. Introduction to the Study of Literature in Italian**

ITALIAN 230, 232, or 233. (3). May not be repeated for credit.

**ITALIAN 310. Italian Cities**

A knowledge of Italian is not required. (3). (HU). May not be repeated for credit. Taught in English.

**ITALIAN 314 / HISTORY 326. Modern Italy: 1815 to Present**

(3). May not be repeated for credit.

**ITALIAN 315. Italian Cinema and Society Since 1945**

A knowledge of Italian is not required. (3). (HU). May be elected twice for credit. Taught in English.

**ITALIAN 316 / SAC 316. Screening Italian-Americans**

(3). (R&E). May not be repeated for credit.

**ITALIAN 320. Modern Italian Literature**

ITALIAN 230, 232, or 233. (3). May be elected twice for credit.

**ITALIAN 333 / MEMS 333. Dante's Divine Comedy**

A knowledge of Italian is not required. (3). (HU). May not be repeated for credit. Taught in English.

**ITALIAN 340. Contemporary Italian Culture**

ITALIAN 230, 232, or 233. (3). (HU). May not be repeated for credit.

**ITALIAN 358. Italian Cinema**

(3). (HU). May not be repeated for credit. No credit granted to those who have completed or enrolled in SAC 358.

**ITALIAN 387. Italian Renaissance Literature**

ITALIAN 230, 232, or 233. (3; 2 in the half-term). (HU). May not be repeated for credit.

**ITALIAN 410. Italian for Spanish Speakers**

SPANISH 275 and 276; or SPANISH 277. (3). May not be repeated for credit. No credit granted for students who have completed ITALIAN 100, 101, 102, 103, 113, 230, 231, 232, or 233. Conducted in Italian. Students who have completed or are enrolled in a second-year Italian course (ITALIAN 231, 232 or 233) should not take this course, because it is not an appropriate match to the skills they have already mastered. ITALIAN 410 does not count toward the Italian major or minor requirements. ITALIAN 410 counts as a 400-level elective toward the Spanish major or minor. Students may count only one of ITALIAN 410 or PORTUG 415 toward the Spanish major or minor.

**ITALIAN 415. Topics in Italian Studies**

(3). May be repeated for a maximum of 9 credits. May be elected more than once in the same term. Taught in English. Rackham credit requires additional work.

**ITALIAN 422. Politics and Literature**

ITALIAN 230, 232, or 233. (3). May not be repeated for credit.

**ITALIAN 425. Italian Romanticism**

ITALIAN 230, 232, or 233. (3). May not be repeated for credit.

**ITALIAN 430. Twentieth Century Italy through its Literature**

ITALIAN 230, 232, or 233. (3). May be elected twice for credit. Students may not repeat ITALIAN 430 with the same topic ID for credit.

**ITALIAN 470. Advanced Topics in Italian Literature**

ITALIAN 230, 232, or 233. Taught in Italian. (3). May be elected three times for credit. May be elected more than once in the same term. Rackham credit requires additional work.

**ITALIAN 475. Dante, Petrarca, Boccaccio**

ITALIAN 230, 232, or 233. (3; 2 - 3 in the half-term). May be elected twice for credit. May be elected more than once in the same term. F, W: Ann Arbor; Sp: Florence.

**ITALIAN 492. Senior Honors Course**

Consent of department required. ITALIAN 491. (3). (INDEPENDENT). May not be repeated for credit.

**ITALIAN 499. Advanced Independent Study**

ITALIAN 230, 232, or 233. (1 - 3). (INDEPENDENT). May be repeated for a maximum of 9 credits.

**Portuguese (PORTUG)**

**PORTUG 101. Elementary Portuguese**

(4). May not be repeated for credit. No credit granted to those who have completed or are enrolled in PORTUG 100 or 415.

**PORTUG 102. Elementary Portuguese**

PORTUG 101 completed with a minimum grade of C- or better. (Prerequisites enforced at registration.) Students who have not taken PORTUG 101 at UM must schedule a placement exam with the instructor. (4). May not be repeated for credit. No credit granted to those who have completed or are enrolled in PORTUG 100 or 415.

**PORTUG 150. First Year Seminar in Brazilian Studies**

Enrollment restricted to first-year students, including those with sophomore standing. (3). (HU). May not be repeated for credit. Taught in English.

**PORTUG 231. Second-Year Portuguese**

PORTUG 102, completed with a minimum grade of C- or better. (Prerequisites enforced at registration.) Students who have not taken PORTUG 102 at UM must schedule a placement exam with the instructor. (4). May not be repeated for credit. No credit granted to those who have completed or are enrolled in PORTUG 230.

**PORTUG 232. Second-Year Portuguese**

PORTUG 231 (C- or better) or PORTUG 415 (C- or better). (Prerequisites enforced at registration.) Students who have not taken PORTUG 231 at UM must schedule a placement exam with the instructor. (4). (Lang Req). May not be repeated for credit. No credit granted to those who have completed or are enrolled in PORTUG 230.

**PORTUG 280. Portuguese for Speakers of Romance Languages**

One of: SPANISH 275, 276, 277, or 278; or RCLANG 324; or FRENCH 235; or ITALIAN 230, 232, or 233. Valid prerequisite options also include the following study abroad equivalents (registration student groups): SP27 (completed SPANISH 277 abroad) and F235 (completed FRENCH 235 abroad) as well. (Prerequisites enforced at registration.) (3). May not be repeated for credit. No credit granted to those who have completed or are enrolled in PORTUG 100, 101, or 102.

**PORTUG 283. Portuguese for the Professions**

PORTUG 232 or 280. (Prerequisites enforced at registration.) (3). May not be repeated for credit.

**PORTUG 287. Advanced Portuguese Conversation and Composition**

PORTUG 232 or 280 or 415. (Prerequisites enforced at registration.) (3). May not be repeated for credit.

**PORTUG 290. Conversation through Film and Popular Music**  
 PORTUG 232, PORTUG 280, or PORTUG 415; or equivalent (POR4 student group). (Prerequisites enforced at registration.) (3). May not be repeated for credit.

**PORTUG 301. Topics in Afro-Luso-Brazilian Cultures**  
 PORTUG 287 (or POR5 student group). (Prerequisites enforced at registration.) (3). May not be repeated for credit.

**PORTUG 350. Independent Study**  
 Consent of instructor required. PORTUG 232. (1 - 3). (INDEPENDENT). May be repeated for a maximum of 6 credits.

**PORTUG 461. Brazilian Culture**  
 PORTUG 287 or its equivalent to prove advanced proficiency in the Portuguese language. (3). May not be repeated for credit.

**PORTUG 462. Lusophone African Cultures**  
 PORTUG 287 or its equivalent to prove advanced proficiency in the Portuguese language. (3). May not be repeated for credit.

**PORTUG 471. Literature in the Portuguese-Speaking World**  
 PORTUG 287 or its equivalent to prove advanced proficiency in the Portuguese language. (3). May not be repeated for credit. Taught in Portuguese.

**PORTUG 472. Cinema in the Portuguese-Speaking World**  
 PORTUG 287 or its equivalent to prove advanced proficiency in the Portuguese language. (3). May not be repeated for credit.

**PORTUG 473. Popular Music in the Portuguese-Speaking World**  
 PORTUG 287 or its equivalent to prove advanced proficiency in the Portuguese language. (3). May not be repeated for credit.

**PORTUG 474. Advanced Topics in Afro-Luso-Brazilian Cultures**  
 PORTUG 287 or its equivalent to prove advanced proficiency in Portuguese. (3). May be repeated for a maximum of 6 credits. May be elected more than once in the same term.

**PORTUG 499. Advanced Independent Study**  
 Consent of instructor required. PORTUG 287 or its equivalent to prove advanced proficiency in the Portuguese language. (1 - 3). (INDEPENDENT). May be repeated for a maximum of 6 credits.

## Romance Languages and Literatures (ROMLANG)

**ROMLANG 241. Introduction to Medieval and Early Modern Romance Literatures and Cultures**  
 (3). (HU). May not be repeated for credit. Taught in English.

**ROMLANG 242. Introduction to Modern and Contemporary Romance Literature's and Cultures**  
 It can be taken as a logical follow-up to ROMLANG 241 (Introduction to Medieval and Early Modern Romance Literatures and Cultures) or on its own. (3). (HU). May not be repeated for credit.

**ROMLANG 250. Special Topics in Humanities**  
 (3). (HU). May be repeated for a maximum of 6 credits.

**ROMLANG 253. The Mediterranean: History and Culture**  
 (3). (HU). May not be repeated for credit. No credit granted to those who have completed or are enrolled in either HISTART 253 or JUDAIC 253.

**ROMLANG 377. Race and Ethnicity in Romance Studies**  
 (3). May not be repeated for credit.

**ROMLANG 400. Topics in Romance Languages and Literature**  
 (1 - 4). May be elected twice for credit. Course may be taught in a Romance language. Rackham credit requires additional work.

**ROMLANG 491. Senior Honors Course**  
 Seniors, with permission of the Honors Advisor. (3). (INDEPENDENT). May not be repeated for credit.

**ROMLANG 492. Senior Honors Course**  
 Consent of department required. ROMLANG 491. (3). (INDEPENDENT). May not be repeated for credit.

**ROMLANG 495. Independent Study**  
 Consent of department required. Application required. (1 - 3). (INDEPENDENT). May not be repeated for credit.

**ROMLANG 498. Senior Seminar in Romance Languages and Literatures**  
 RLL concentrators and senior standing. (Prerequisites enforced at registration.) (3). May be repeated for a maximum of 6 credits. Continuing Course. Y grade can be reported at end of the first-term to indicate work in progress. At the end of the second term, the final grade is posted for both term's elections. Rackham credit requires additional work.

## Romance Linguistics (ROMLING)

**ROMLING 298 / SPANISH 298. Introduction to Spanish Linguistics**  
 SPANISH 275, 276, or SPANISH 277; or SPANISH 278 (or 290) or AMCULT 224 or LATINOAM 224; or RCLANG 324. (Prerequisites enforced at registration.) (3). May not be repeated for credit. No credit granted to students who have completed SPANISH 330 or ROMLING 330.

**ROMLING 300. Introduction to the Romance Languages**  
 French, Spanish, or Italian: five terms at college level or equivalent. (3; 2 in the half-term). May not be repeated for credit.

**ROMLING 333 / SPANISH 333. Techniques of Pronunciation and Oral Expression**  
 SPANISH 275, 276, or SPANISH 277; or SPANISH 278 (or 290) or AMCULT 224 or LATINOAM 224; or RCLANG 324. (Prerequisites enforced at registration.) (3). May not be repeated for credit.

**ROMLING 410 / SPANISH 410. Spanish Phonetics and Phonology**  
*[SPANISH/ROMLING 298, or SPANISH 333, or LING 210 and (six additional credits from SPANISH 279 through 399, or 300-level study abroad equivalent)] OR [SPANISH/ROMLING 298, or SPANISH 333, or LING 210 and two courses of RCLANG 324 and (three additional credits from SPANISH 279 through 399, or 300-level study abroad equivalent)]. (Prerequisites enforced at registration.) (3). May not be repeated for credit.*

**ROMLING 413 / EDCURINS 455 / SPANISH 413. Teaching Spanish/Applications of Linguistics**  
*Nine credits chosen between SPANISH 279 and 399; or two RCLANG 324 and six credits chosen between SPANISH 279 and 399. (Prerequisites enforced at registration.) One of: SPANISH 298, ROMLING 298, LING 210. (3). May not be repeated for credit.*

**ROMLING 414 / SPANISH 414. Background of Modern Spanish**  
*Nine credits chosen between SPANISH 279 and 399; or two RCLANG 324 and six credits chosen between SPANISH 279 and 399. (Prerequisites enforced at registration.) One of: SPANISH 298, ROMLING 298, or LING 210. (3). May not be repeated for credit. Taught in Spanish.*

**ROMLING 416 / SPANISH 416. Spanish Sociolinguistics**  
*Nine credits chosen between SPANISH 279 and 399; or two RCLANG 324 and six credits chosen between SPANISH 279 and 399. (Prerequisites enforced at registration.) One of SPANISH 298, ROMLING 298, LING 210. (3). May not be repeated for credit. Rackham credit requires additional work.*

**ROMLING 418 / SPANISH 418. Spanish Second Language Acquisition**  
*Nine credits chosen between SPANISH 279 and 399; or two RCLANG 324 and six credits chosen between SPANISH 279 and 399. (Prerequisites enforced at registration.) One of SPANISH 298, ROMLING 298, LING 210. (3). May not be repeated for credit. Rackham credit requires additional work.*

**ROMLING 450. Independent Study**  
*Consent of instructor required. (1 - 3). (INDEPENDENT). May be repeated for credit.*

## Spanish (SPANISH)

**SPANISH 100. Intensive Elementary Spanish**  
*No prior instruction in Spanish language OR placement of SPANISH 101. (Prerequisites enforced at registration.) Students with any prior study of Spanish must take the Placement Test. (8 in the half-term). May not be repeated for credit. No credit granted to those who are enrolled in or have completed SPANISH 101, 102, 103, 113, or RCLANG 194. This course does not meet the threshold for proficiency for the Residential College.*

**SPANISH 101. Elementary Spanish**  
*No prior Spanish language or placement of SPANISH 101. (Prerequisites enforced at registration.) Students with any prior study of Spanish must take the Placement Test. (4). May not be repeated for credit. No credit granted to those who are enrolled in or have*

*completed or are enrolled in SPANISH 100, 113, or RCLANG 194.*

**SPANISH 102. Elementary Spanish**  
*SPANISH 101 with a minimum grade of C- or better. (Prerequisites enforced at registration.) (4). May not be repeated for credit. No credit granted to those who are enrolled in or have completed SPANISH 100, 103, 113, or RCLANG 194.*

**SPANISH 103. Review of Elementary Spanish**  
*Assignment of SPANISH 103 by placement test; or RCLANG 154. College or university transfer students with any prior study of Spanish must take the Placement Test. (Prerequisites enforced at registration.) Only placement score and not language coursework completed at a previous school will determine placement. (4). May not be repeated for credit. No credit granted to those who are enrolled in or have completed SPANISH 100, 102, 113, or RCLANG 194.*

**SPANISH 230. Intensive Second-Year Spanish**  
*SPANISH 100, 102 or 103 with a grade of C- or higher; or RCLANG 194; or assignment of SPANISH 231 by placement test. College or university transfer students with any prior study of Spanish must take the Placement Test. Only the placement score and not language coursework completed at a previous school will determine placement. (Prerequisites enforced at registration.) (8 in the half-term). (Lang Req). May not be repeated for credit. No credit granted to those who are enrolled in or have completed SPANISH 113, 231, 232, or RCLANG 294 or 314. This course does not meet the threshold for proficiency for the Residential College.*

**SPANISH 231. Second-Year Spanish**  
*SPANISH 100, 102 or 103 with a grade of C- or higher; or RCLANG 194; or assignment of SPANISH 231 by placement test. College or university transfer students with any prior study of Spanish must take the Placement Test. Only the placement score and not language coursework completed at a previous school will determine placement. (Prerequisites enforced at registration.) (4). May not be repeated for credit. No credit granted to those who are enrolled in or have completed SPANISH 113, 230, or RCLANG 294 or 314.*

**SPANISH 232. Second-Year Spanish, Continued**  
*SPANISH 231 with a minimum grade of C- or better, or RCLANG 254; or assignment by Placement Test. College or university transfer students with any prior study of Spanish must take the Placement Test. (Prerequisites enforced at registration.) Only placement score and not language coursework completed at a previous school will determine placement. (4). (Lang Req). May not be repeated for credit. No credit granted to those who are enrolled in or have completed SPANISH 113 or 230; or RCLANG 294 or 314.*

**SPANISH 277. Reading, Grammar, and Composition**  
*SPANISH 230 or 232 with a grade of C- or higher; RCLANG 294 or 314; or assignment of SPANISH 277 or SPANISH 275 by placement test; or SPANISH 274x or Spanish 279x AP or IB test credit. (Prerequisites enforced at registration.) Students who receive transfer credit for SPANISH 232 and wish to continue with their language study are strongly encouraged to take the Spanish placement exam to be certain that they are prepared for SPANISH 277. (3). May not be repeated for credit. No credit for students who have completed SPANISH 276.*



SPANISH 277 is the prerequisite for a minor or major in Spanish.

**SPANISH 278 / AMCULT 224 / LATINOAM 224. Spanish for Heritage Language Learners**

Basic knowledge of Spanish language. (4). May not be repeated for credit. No credit granted to students who have completed SPANISH 290. This course satisfies the prerequisite for the Spanish major or minor, but does not count toward the required courses to complete a Spanish major or minor. This course does not satisfy the language requirement.

**SPANISH 280. Conversation Through Spanish/Latin American Film**

SPANISH 275, 276, or 277; or SPANISH 278 (or 290) or AMCULT 224 or LATINOAM 224; or RCLANG 324. (Prerequisites enforced at registration.) (3). May not be repeated for credit.

**SPANISH 283. Spanish for the Professions**

SPANISH 275, 276, or SPANISH 277; or SPANISH 278 (or 290) or AMCULT 224 or LATINOAM 224; or RCLANG 324. (Prerequisites enforced at registration.) (3). May not be repeated for credit. No credit granted to students who have completed SPANISH 305.

**SPANISH 287. Written Expression: Achieving Competence**

SPANISH 275, 276, or SPANISH 277; or SPANISH 278 (or 290) or AMCULT 224 or LATINOAM 224; or RCLANG 324. (Prerequisites enforced at registration.) (3). May not be repeated for credit. No credit granted to students who have completed SPANISH 310. Conducted in Spanish.

**SPANISH 289. Introduction to Translation**

SPANISH 275, 276, or SPANISH 277; or SPANISH 278 (or 290) or AMCULT 224 or LATINOAM 224; or RCLANG 324. (Prerequisites enforced at registration.) (3). May not be repeated for credit.

**SPANISH 291 / CATALAN 291. Introduction to Catalan Language and Culture**

SPANISH 275, 276, or SPANISH 277; or SPANISH 278 (or 290) or AMCULT 224 or LATINOAM 224; or RCLANG 324. (Prerequisites enforced at registration.) (3). May not be repeated for credit.

**SPANISH 295. Introduction to Hispanic Literatures**

SPANISH 275, 276, or SPANISH 277; or SPANISH 278 (or 290) or AMCULT 224 or LATINOAM 224; or RCLANG 324. (Prerequisites enforced at registration.) (3). (HU). May not be repeated for credit. No credit granted to students who have completed SPANISH 320.

**SPANISH 296. Special Topics in Hispanic Literatures and Cultures**

SPANISH 275, 276, or SPANISH 277; or SPANISH 278 (or 290) or AMCULT 224 or LATINOAM 224; or RCLANG 324. (Prerequisites enforced at registration.) (3). May not be repeated for credit.

**SPANISH 298 / ROMLING 298. Introduction to Spanish Linguistics**

SPANISH 275, 276, or SPANISH 277; or SPANISH 278 (or 290) or AMCULT 224 or LATINOAM 224; or RCLANG 324. (Prerequisites enforced at registration.) (3). May not be repeated for credit. No credit granted to students who have completed SPANISH 330 or ROMLING

330.

**SPANISH 299. Introductory Internship**

SPANISH 275, 276, or SPANISH 277; or SPANISH 278 (or 290) or AMCULT 224 or LATINOAM 224; or RCLANG 324. (Prerequisites enforced at registration.) (3). (EXPERIENTIAL). May not be repeated for credit. Credit can be earned for no more than one independent study and one internship without the approval of the Spanish Undergraduate Curriculum Committee. Offered mandatory credit/no credit.

**SPANISH 308. Workshop in Academic Writing**

SPANISH 275, 276, or SPANISH 277; or SPANISH 278 (or 290) or AMCULT 224 or LATINOAM 224; or RCLANG 324. (Prerequisites enforced at registration.) (1). May not be repeated for credit. This course does not satisfy the language requirement. This course does not count toward the Spanish major or minor.

**SPANISH 313. Contemporary Issues in Spain**

SPANISH 275, 276, or SPANISH 277; or SPANISH 278 (or 290) or AMCULT 224 or LATINOAM 224; or RCLANG 324. (Prerequisites enforced at registration.) (3). May not be repeated for credit.

**SPANISH 315. Contemporary Issues in the Caribbean and South America**

SPANISH 275, 276, or SPANISH 277; or SPANISH 278 (or 290) or AMCULT 224 or LATINOAM 224; or RCLANG 324. (Prerequisites enforced at registration.) (3). May not be repeated for credit.

**SPANISH 328. Studies in Hispanic Popular Culture**

SPANISH 275, 276, or SPANISH 277; or SPANISH 278 (or 290) or AMCULT 224 or LATINOAM 224; or RCLANG 324. (Prerequisites enforced at registration.) (3). May not be repeated for credit.

**SPANISH 330 / CATALAN 330. Advanced Catalan Language, Culture, and Society**

CATALAN 291/SPANISH 291. (Prerequisites enforced at registration.) (3). May not be repeated for credit.

**SPANISH 331 / GTBOOKS 331. Great Books of Spain and Latin America**

Open to students at all levels. (3). (HU). May not be repeated for credit.

**SPANISH 332. Short Narrative in Latin America/Spain**

SPANISH 275, 276, or SPANISH 277; or SPANISH 278 (or 290) or AMCULT 224 or LATINOAM 224; or RCLANG 324. (Prerequisites enforced at registration.) (3). (HU). May not be repeated for credit.

**SPANISH 333 / ROMLING 333. Techniques of Pronunciation and Oral Expression**

SPANISH 275, 276, or SPANISH 277; or SPANISH 278 (or 290) or AMCULT 224 or LATINOAM 224; or RCLANG 324. (Prerequisites enforced at registration.) (3). May not be repeated for credit.

**SPANISH 335. Contemporary Spanish and Spanish-American Cultural**

**Production**

SPANISH 275, 276, or SPANISH 277; or SPANISH 278 (or 290) or AMCULT 224 or LATINOAM 224; or RCLANG 324. (Prerequisites enforced at registration.) (3). (HU). May be repeated for a maximum of 6 credits. May be elected more than once in the same term.

**SPANISH 337. Poetry Workshop**

SPANISH 275, 276, or SPANISH 277; or SPANISH 278 (or 290) or AMCULT 224 or LATINOAM 224; or RCLANG 324. (Prerequisites enforced at registration.) (3). May not be repeated for credit.

**SPANISH 339. Introduction to Spanish Culture Before 19th Century**

SPANISH 275, 276, or 277; or SPANISH 278 (or 290) or AMCULT 224 or LATINOAM 224; or RCLANG 324. (Prerequisites enforced at registration.) (3). May not be repeated for credit.

**SPANISH 340. Introduction to Contemporary Spanish Culture**

SPANISH 275, 276, or SPANISH 277; or SPANISH 278 (or 290) or AMCULT 224 or LATINOAM 224; or RCLANG 324. (Prerequisites enforced at registration.) (3). May not be repeated for credit.

**SPANISH 341. Introduction to Pre-Columbian/Colonial/Modern Latin-American Culture**

SPANISH 275, 276, or SPANISH 277; or SPANISH 278 (or 290) or AMCULT 224 or LATINOAM 224; or RCLANG 324. (Prerequisites enforced at registration.) (3). May not be repeated for credit.

**SPANISH 342. Introduction to Contemporary Latin American Culture**

SPANISH 275, 276, or SPANISH 277; or SPANISH 278 (or 290) or AMCULT 224 or LATINOAM 224; or RCLANG 324. (Prerequisites enforced at registration.) (3). May not be repeated for credit.

**SPANISH 350. Independent Studies**

Consent of instructor required. Permission of concentration advisor. Application required. (1 - 3). (INDEPENDENT). May not be repeated for credit. Credit can be earned for no more than one independent study and one internship without the approval of the Spanish Undergraduate Curriculum Committee. Independent studies of fewer than three credits will not count toward the Spanish major requirements.

**SPANISH 355. New World Spanish**

SPANISH 275, 276, or SPANISH 277; or SPANISH 278 (or 290) or AMCULT 224 or LATINOAM 224; or RCLANG 324. (Prerequisites enforced at registration.) (3). May not be repeated for credit.

**SPANISH 368. Literature and the Other Arts**

SPANISH 275, 276, or SPANISH 277; or SPANISH 278 (or 290) or AMCULT 224 or LATINOAM 224; or RCLANG 324. (Prerequisites enforced at registration.) (3). (HU). May not be repeated for credit.

**SPANISH 369. Introduction to Film/Media Theory and Criticism**

SPANISH 275, 276, or SPANISH 277; or SPANISH 278 (or 290) or AMCULT 224 or LATINOAM 224; or RCLANG 324. (Prerequisites enforced at registration.) (3). May not be repeated for credit.

**SPANISH 371. Survey of Spanish Literature, I**

SPANISH 275, 276, or SPANISH 277; or SPANISH 278 (or 290) or AMCULT 224 or LATINOAM 224; or RCLANG 324. (Prerequisites enforced at registration.) (3). (HU). May not be repeated for credit. Conducted in Spanish.

**SPANISH 372. Survey of Spanish Literature, II**

SPANISH 275, 276, or SPANISH 277; or SPANISH 278 (or 290) or AMCULT 224 or LATINOAM 224; or RCLANG 324. (Prerequisites enforced at registration.) (3). (HU). May not be repeated for credit. Conducted in Spanish.

**SPANISH 373. Topics in Hispanic Studies**

SPANISH 275, 276, or SPANISH 277; or SPANISH 278 (or 290) or AMCULT 224 or LATINOAM 224; or RCLANG 324. (Prerequisites enforced at registration.) (3). (HU). May be repeated for a maximum of 6 credits. May be elected more than once in the same term.

**SPANISH 375. Topics in Hispano/Islamic/Sephardic Cultures**

SPANISH 275, 276, or SPANISH 277; or SPANISH 278 (or 290) or AMCULT 224 or LATINOAM 224; or RCLANG 324. (Prerequisites enforced at registration.) (3). (HU). May be repeated for a maximum of 6 credits. May be elected more than once in the same term.

**SPANISH 381. Survey of Latin American Literature, I**

SPANISH 275, 276, or SPANISH 277; or SPANISH 278 (or 290) or AMCULT 224 or LATINOAM 224; or RCLANG 324. (Prerequisites enforced at registration.) (3). (HU). May not be repeated for credit.

**SPANISH 382. Survey of Latin American Literature, II**

SPANISH 275, 276, or SPANISH 277; or SPANISH 278 (or 290) or AMCULT 224 or LATINOAM 224; or RCLANG 324. (Prerequisites enforced at registration.) (3). (HU). May not be repeated for credit.

**SPANISH 385. Race and Ethnicity in the Hispanic World**

SPANISH 275, 276, or SPANISH 277; or SPANISH 278 (or 290) or AMCULT 224 or LATINOAM 224; or RCLANG 324. (Prerequisites enforced at registration.) (3). May be repeated for a maximum of 6 credits. May be elected more than once in the same term.

**SPANISH 387. Social Forces and Cultural Production in Medieval/Early Modern Spain**

SPANISH 275, 276, or SPANISH 277; or SPANISH 278 (or 290) or AMCULT 224 or LATINOAM 224; or RCLANG 324. (Prerequisites enforced at registration.) (3). (HU). May not be repeated for credit.

**SPANISH 410 / ROMLING 410. Spanish Phonetics and Phonology**

[SPANISH/ROMLING 298, or SPANISH 333, or LING 210 and (six additional credits from SPANISH 279 through 399, or 300-level study abroad equivalent)] OR [SPANISH/ROMLING 298, or SPANISH 333, or LING 210 and two courses of RCLANG 324 and (three additional credits from SPANISH 279 through 399, or 300-level study abroad equivalent)]. (Prerequisites enforced at registration.) (3). May not be repeated for credit.

**SPANISH 411. Advanced Syntax**

[SPANISH/ROMLING 298 or LING 210 and (six additional credits from SPANISH 279 through 399, or 300-level study abroad equivalent)] OR [SPANISH/ROMLING 298 or LING 210 and two courses of RCLANG 324 and (three additional credits from SPANISH 279 through 399, or 300-level study abroad equivalent)]. (Prerequisites enforced at registration.) (3). May not be repeated for credit.

**SPANISH 413 / EDCURINS 455 / ROMLING 413. Teaching Spanish/Applications of Linguistics**

Nine credits chosen between SPANISH 279 and 399; or two RCLANG 324 and six credits chosen between SPANISH 279 and 399. (Prerequisites enforced at registration.) One of: SPANISH 298, ROMLING 298, LING 210. (3). May not be repeated for credit.

**SPANISH 414 / ROMLING 414. Background of Modern Spanish**

Nine credits chosen between SPANISH 279 and 399; or two RCLANG 324 and six credits chosen between SPANISH 279 and 399. (Prerequisites enforced at registration.) One of: SPANISH 298, ROMLING 298, or LING 210. (3). May not be repeated for credit.

**SPANISH 415. Problems in Language Translation**

Nine credits chosen between SPANISH 279 and 399; or two RCLANG 324 and six credits chosen between SPANISH 279 and 399. (Prerequisites enforced at registration.) One of: SPANISH 298, ROMLING 298, SPANISH 289 or LING 210 AND six credits of 300 level Spanish. (3). May not be repeated for credit.

**SPANISH 416 / ROMLING 416. Spanish Sociolinguistics**

Nine credits chosen between SPANISH 279 and 399; or two RCLANG 324 and six credits chosen between SPANISH 279 and 399. (Prerequisites enforced at registration.) One of SPANISH 298, ROMLING 298, LING 210. (3). May not be repeated for credit. Rackham credit requires additional work.

**SPANISH 418 / ROMLING 418. Spanish Second Language Acquisition**

Nine credits chosen between SPANISH 279 and 399; or two RCLANG 324 and six credits chosen between SPANISH 279 and 399. (Prerequisites enforced at registration.) One of SPANISH 298, ROMLING 298, LING 210. (3). May not be repeated for credit. Rackham credit requires additional work.

**SPANISH 420 / AMCULT 420 / LATINOAM 420. Latin American & Latino/a Film Studies**

Nine credits chosen from: SPANISH 279 and 399 or two RCLANG 324; and six credits chosen from SPANISH 279 and 399. (Prerequisites enforced at registration.) (3). May not be repeated for credit. Rackham credit requires additional work.

**SPANISH 421. Cinema From Spain**

Nine credits chosen between SPANISH 279 and 399; or two RCLANG 324 and six credits chosen between SPANISH 279 and 399. (Prerequisites enforced at registration.) (3). May not be repeated for credit. Rackham credit requires additional work.

**SPANISH 423. Visual Cultures in the Hispanic World**

Nine credits chosen between SPANISH 279 and 399; or two RCLANG 324 and six credits chosen between SPANISH 279 and 399.

(Prerequisites enforced at registration.) (3). May be repeated for a maximum of 6 credits. May be elected more than once in the same term.

**SPANISH 425. Latin American/Spanish Theater**

Nine credits chosen between SPANISH 279 and 399; or two RCLANG 324 and six credits chosen between SPANISH 279 and 399. (Prerequisites enforced at registration.) (3). May not be repeated for credit.

**SPANISH 426. Film Genres in the Hispanic World**

Nine credits chosen between SPANISH 279 and 399; or two RCLANG 324 and six credits chosen between SPANISH 279 and 399. (Prerequisites enforced at registration.) (3). May be repeated for a maximum of 6 credits. May be elected more than once in the same term.

**SPANISH 428. Internship in Spanish**

Nine credits chosen between SPANISH 279 and 399; or two RCLANG 324 and six credits chosen between SPANISH 279 and 399. (Prerequisites enforced at registration.) (3). (EXPERIENTIAL). May not be repeated for credit. Credit can be earned for no more than one independent study and one internship without the approval of the Spanish Undergraduate Curriculum Committee. Offered mandatory credit/no credit.

**SPANISH 430. Advanced Studies in Hispanic Culture and Society**

Nine credits chosen between SPANISH 279 and 399; or two RCLANG 324 and six credits chosen between SPANISH 279 and 399. (Prerequisites enforced at registration.) (3). May be repeated for a maximum of 6 credits. May be elected more than once in the same term.

**SPANISH 432. Gender, Sexuality, and Culture**

Nine credits chosen between SPANISH 279 and 399; or two RCLANG 324 and six credits chosen between SPANISH 279 and 399. (Prerequisites enforced at registration.) (3). May not be repeated for credit.

**SPANISH 435. Independent Study**

Nine credits chosen between SPANISH 279 and 399; or two RCLANG 324 and six credits chosen between SPANISH 279 and 399. (Prerequisites enforced at registration.) (1 - 3). (INDEPENDENT). May be repeated for a maximum of 3 credits. Credit can be earned for no more than one independent study and one internship without the approval of the Spanish Undergraduate Curriculum Committee. Independent studies of fewer than three credits will not count toward the Spanish major requirements.

**SPANISH 437. Introduction to Literature Studies and Criticism**

Nine credits chosen between SPANISH 279 and 399; or two RCLANG 324 and six credits chosen between SPANISH 279 and 399. (Prerequisites enforced at registration.) (3). May be repeated for a maximum of 6 credits. May be elected more than once in the same term.

**SPANISH 438. Political and Economic Thought in Latin America/Spain**

*Nine credits chosen between SPANISH 279 and 399; or two RCLANG 324 and six credits chosen between SPANISH 279 and 399. (Prerequisites enforced at registration.) (3). May not be repeated for credit.*

**SPANISH 439. Social Movements in Latin America/Spain**

*Nine credits chosen between SPANISH 279 and 399; or two RCLANG 324 and six credits chosen between SPANISH 279 and 399. (Prerequisites enforced at registration.) (3). May be repeated for a maximum of 6 credits. May be elected more than once in the same term.*

**SPANISH 440. Literatures and Cultures of the Borderlands: The Politics of Language**

*Nine credits chosen between SPANISH 279 and 399; or two RCLANG 324 and six credits chosen between SPANISH 279 and 399. (Prerequisites enforced at registration.) (3). May be repeated for a maximum of 6 credits. May be elected more than once in the same term. Conducted in Spanish.*

**SPANISH 441 / CATALAN 441. Topics in Catalan Literature and Culture**

*Nine credits chosen between SPANISH 279 and 399; or two RCLANG 324 and six credits chosen between SPANISH 279 and 399. (Prerequisites enforced at registration.) (3). May not be repeated for credit.*

**SPANISH 442. Historical Memory and Testimony**

*Nine credits chosen between SPANISH 279 and 399; or two RCLANG 324 and six credits chosen between SPANISH 279 and 399. (Prerequisites enforced at registration.) (3). May not be repeated for credit.*

**SPANISH 443. History and Historiography in Latin America/Spain**

*Nine credits chosen between SPANISH 279 and 399; or two RCLANG 324 and six credits chosen between SPANISH 279 and 399. (Prerequisites enforced at registration.) (3). May be repeated for a maximum of 6 credits. May be elected more than once in the same term.*

**SPANISH 444. Nations and Nationalisms in the Hispanic World**

*Nine credits chosen between SPANISH 279 and 399; or two RCLANG 324 and six credits chosen between SPANISH 279 and 399. (Prerequisites enforced at registration.) (3). May be repeated for a maximum of 6 credits. May be elected more than once in the same term.*

**SPANISH 445. Romance Studies: Introduction to French-Spanish Literary Relations**

*A reading knowledge of French and Spanish. (3). May not be repeated for credit.*

**SPANISH 447. The Archive**

*Nine credits chosen between SPANISH 279 and 399; or two RCLANG 324 and six credits chosen between SPANISH 279 and 399. (Prerequisites enforced at registration.) (3). May be repeated for a maximum of 6 credits. May be elected more than once in the same*

*term.*

**SPANISH 450. Middle Ages**

*Nine credits chosen between SPANISH 279 and 399; or two RCLANG 324 and six credits chosen between SPANISH 279 and 399. (Prerequisites enforced at registration.) (3). May be repeated for a maximum of 6 credits. May be elected more than once in the same term.*

**SPANISH 453. Religion and Culture in the Hispanic World**

*Nine credits chosen between SPANISH 279 and 399; or two RCLANG 324 and six credits chosen between SPANISH 279 and 399. (Prerequisites enforced at registration.) (3). May not be repeated for credit.*

**SPANISH 456. Golden Age**

*Nine credits chosen between SPANISH 279 and 399; or two RCLANG 324 and six credits chosen between SPANISH 279 and 399. (Prerequisites enforced at registration.) (3). May not be repeated for credit.*

**SPANISH 458. Early Modern Narrative**

*Nine credits chosen between SPANISH 279 and 399; or two RCLANG 324 and six credits chosen between SPANISH 279 and 399. (Prerequisites enforced at registration.) (3). May not be repeated for credit.*

**SPANISH 459. Cervantes**

*Nine credits chosen between SPANISH 279 and 399; or two RCLANG 324 and six credits chosen between SPANISH 279 and 399. (Prerequisites enforced at registration.) (3). May be repeated for a maximum of 6 credits.*

**SPANISH 460. The Spanish Comedia**

*Nine credits chosen between SPANISH 279 and 399; or two RCLANG 324 and six credits chosen between SPANISH 279 and 399. (Prerequisites enforced at registration.) (3). May not be repeated for credit.*

**SPANISH 467. Literary and Artistic Movements in Latin America/Spain**

*Nine credits chosen between SPANISH 279 and 399; or two RCLANG 324 and six credits chosen between SPANISH 279 and 399. (Prerequisites enforced at registration.) (3). May be repeated for a maximum of 6 credits. May be elected more than once in the same term.*

**SPANISH 468. Performance in the Hispanic World**

*Nine credits chosen between SPANISH 279 and 399; or two RCLANG 324 and six credits chosen between SPANISH 279 and 399. (Prerequisites enforced at registration.) (3). May not be repeated for credit.*

**SPANISH 470. Colonial Latin America**

*Nine credits chosen between SPANISH 279 and 399; or two RCLANG 324 and six credits chosen between SPANISH 279 and 399.*

*(Prerequisites enforced at registration.) (3). May be repeated for a maximum of 6 credits. May be elected more than once in the same term.*

#### **SPANISH 472. Indigenous Societies**

*Nine credits chosen between SPANISH 279 and 399; or two RCLANG 324 and six credits chosen between SPANISH 279 and 399. (Prerequisites enforced at registration.) (3). May not be repeated for credit.*

#### **SPANISH 473. Colonial/Postcolonial Studies in Latin-American Cultures**

*Nine credits chosen between SPANISH 279 and 399; or two RCLANG 324 and six credits chosen between SPANISH 279 and 399. (Prerequisites enforced at registration.) (3). May not be repeated for credit.*

#### **SPANISH 474. Cities and Spaces in the Hispanic World**

*Nine credits chosen between SPANISH 279 and 399; or two RCLANG 324 and six credits chosen between SPANISH 279 and 399. (Prerequisites enforced at registration.) (3). May be repeated for a maximum of 6 credits. May be elected more than once in the same term.*

#### **SPANISH 475. Latin American/Spanish Narrative**

*Nine credits chosen between SPANISH 279 and 399; or two RCLANG 324 and six credits chosen between SPANISH 279 and 399. (Prerequisites enforced at registration.) (3). May be repeated for a maximum of 6 credits. May be elected more than once in the same term. Taught in Spanish.*

#### **SPANISH 476. Latin-American Poetry**

*Nine credits chosen between SPANISH 279 and 399; or two RCLANG 324 and six credits chosen between SPANISH 279 and 399. (Prerequisites enforced at registration.) (3). May be repeated for a maximum of 6 credits. May be elected more than once in the same term. Taught in Spanish.*

#### **SPANISH 480. Transnational Cultures**

*Nine credits chosen between SPANISH 279 and 399; or two RCLANG 324 and six credits chosen between SPANISH 279 and 399. (Prerequisites enforced at registration.) (3). May be repeated for a maximum of 6 credits. May be elected more than once in the same term.*

#### **SPANISH 485. Case Studies in Peninsular Spanish and Latin American Literature**

*Nine credits chosen between SPANISH 279 and 399; or two RCLANG 324 and six credits chosen between SPANISH 279 and 399. (Prerequisites enforced at registration.) (3). May be repeated for a maximum of 6 credits. May be elected more than once in the same term.*

#### **SPANISH 487. Studies in Hispanic Linguistics**

*Nine credits chosen between SPANISH 279 and 399; or two RCLANG 324 and six credits chosen between SPANISH 279 and 399. (Prerequisites enforced at registration.) SPANISH 298, ROMLING 298,*

*or LING 210. (3). May be repeated for a maximum of 9 credits. May be elected more than once in the same term. Rackham credit requires additional work.*

#### **SPANISH 488. Topics in Hispanic Literature/History/Culture**

*Nine credits chosen between SPANISH 279 and 399; or two RCLANG 324's and six credits chosen between SPANISH 279 and 399. (Prerequisites enforced at registration.) (3). May be repeated for a maximum of 6 credits. May be elected more than once in the same term.*

#### **SPANISH 491. Senior Honors Course**

*Consent of instructor required. Seniors, with permission of the Honors Advisor. (3). May not be repeated for credit.*

#### **SPANISH 492. Senior Honors Course**

*Consent of instructor required. SPANISH 491. (3). (INDEPENDENT). May not be repeated for credit.*

## **Courses in LSA Screen Arts & Cultures**

### **Screen Arts and Cultures (SAC)**

#### **SAC 190. First-Year Film Seminar**

*Enrollment restricted to first-year students, including those with sophomore standing. (3; 2 in the half-term). (HU). May not be repeated for credit.*

#### **SAC 202. Introduction to Digital Media Studies**

*(4). (HU). May not be repeated for credit. AMCULT 202.*

#### **SAC 210. Introduction to Screenwriting**

*SAC 236. (3). May not be repeated for credit.*

#### **SAC 236 / RCHUMS 236. The Art of the Film**

*(4). (HU). May not be repeated for credit.*

#### **SAC 250 / JUDAIC 250 / NEAREAST 280. Jewish Film: Race, Ethnicity, and Nationality**

*(4). (HU). (R&E). May not be repeated for credit.*

#### **SAC 272. Classical Film Theory**

*(3). May not be repeated for credit.*

#### **SAC 290. Introduction to Media Production**

*SAC 236 or RCHUMS 236, completed with a minimum grade of C- or better. (Prerequisites enforced at registration.) (3). (CE). May not be repeated for credit.*

#### **SAC 300. Dramatic Narrative I**

*SAC 290; and concentration in Screen Arts and Cultures. (Prerequisites enforced at registration.) (3). May not be repeated for credit.*

**SAC 301. Documentary I**

SAC 290 and SAC Concentrator. (Prerequisites enforced at registration.) (3). May not be repeated for credit.

**SAC 302. Television I**

SAC 290; and concentration in Screen Arts and Cultures. (Prerequisites enforced at registration.) (3). May not be repeated for credit.

**SAC 304. Topics in Media Production I**

SAC 290 with a minimum grade of C- or better, and a declared major in Screen Arts and Cultures. (Prerequisites enforced at registration.) (1 - 3). May be repeated for a maximum of 6 credits. May be elected more than once in the same term.

**SAC 305. The Experimental Screen**

SAC 290. (Prerequisites enforced at registration.) (3). May not be repeated for credit.

**SAC 306. New Media Practices I**

SAC 290. (Prerequisites enforced at registration.) Students should have basic working knowledge of the Macintosh platform, Photoshop, and digital video. (3). May not be repeated for credit.

**SAC 308. Screenwriting for Non-Majors**

(3). (CE). May not be repeated for credit.

**SAC 310. Screenwriting I: The Feature Script**

SAC 210, SAC 290, SAC majors. (Prerequisites enforced at registration.) (3). May not be repeated for credit.

**SAC 311. Writing for Television I: The Spec Script**

SAC 210, SAC 290, SAC major. (Prerequisites enforced at registration.) (3). May not be repeated for credit.

**SAC 313 / RCHUMS 313 / SLAVIC 313. Russian and Ukrainian Cinema**

(3). (HU). May not be repeated for credit.

**SAC 314 / POLISH 314. Polish Cinema**

(3). (HU). May not be repeated for credit.

**SAC 315 / CZECH 315. The Czech New Wave and Its Legacy**

(3). (HU). (R&E). May not be repeated for credit.

**SAC 316 / ITALIAN 316. Screening Italian-Americans**

(3). (R&E). May not be repeated for credit.

**SAC 321 / NEAREAST 221. Iranian Cinema: Re/Presenting a Nation**

(3). (HU). (R&E). May not be repeated for credit.

**SAC 324 / COMM 251. Understanding Media Industries**

(4). (SS). May not be repeated for credit. No credit granted to those who have completed COMM 351.

**SAC 325. New Line and New Hollywood Cinema**

(3). May not be repeated for credit.

**SAC 330 / ENGLISH 330. Major Directors**

SAC 236. (3). (HU). May be repeated for a maximum of 9 credits. May be elected more than once in the same term.

**SAC 331 / ENGLISH 331. Film Genres and Types**

SAC 236. (3). (HU). May be repeated for a maximum of 9 credits. May be elected more than once in the same term.

**SAC 333 / GERMAN 333. Fascist Cinemas**

SAC 236. (3). (HU). (R&E). May not be repeated for credit.

**SAC 334 / AMCULT 334 / COMM 334. Race, Gender, Sexuality and U.S. Culture in Video Games**

(4; 3 in the half-term). May not be repeated for credit.

**SAC 335. Authorship and the Archive: Exploring the Film, Theater, and TV Collections of the U of M Special Collections Library**

SAC 236 or "Graduate Standing". (Prerequisites enforced at registration.) SAC 272. (3). (HU). May not be repeated for credit.

**SAC 340. Writing Film Criticism**

SAC 230 or 236. (Prerequisites enforced at registration.) (3). (HU). May not be repeated for credit.

**SAC 346 / AMCULT 346 / GERMAN 346. Media Matter: From Print to Screen Culture**

(3). (HU). May not be repeated for credit.

**SAC 350. The Silent Screen: Arts and Cultures**

(3). (HU). May not be repeated for credit.

**SAC 352. Film History: Origins to the French New Wave**

SAC 236. (3). (HU). May not be repeated for credit.

**SAC 353. Film History: Post New Wave**

SAC 236. (3). (HU). May not be repeated for credit.

**SAC 354. New Media History**

SAC 236. (3). (HU). May not be repeated for credit.

**SAC 355. Television History**

SAC 236. (3). (HU). May not be repeated for credit.

**SAC 358. Italian Film: History, Art, Entertainment**

(3). (HU). May not be repeated for credit. No credit granted to those who have completed or are enrolled in ITALIAN 358.

**SAC 366. Topics in Film, Television and Popular Culture**

(3). May be repeated for a maximum of 9 credits. May be elected more than once in the same term.

**SAC 367. Introduction to Digital Media Studies**

(3). (HU). May not be repeated for credit.

**SAC 368. Topics in Digital Media Studies**

SAC 367. (3). May be repeated for a maximum of 9 credits. May be elected more than once in the same term.

**SAC 372. Contemporary Film Theory**

SAC 236. (3). (HU). May not be repeated for credit.

**SAC 375. Television Theory and Criticism**

SAC 236. (3). May not be repeated for credit.

**SAC 376. New Media Theory**

SAC 236. (3). (HU). May not be repeated for credit.

**SAC 380 / AMCULT 380 / LATINOAM 380. Studies in Transnational Media**

Prior coursework in Screen Arts & Cultures, Communications (TV), or Latino Studies. Knowledge of Spanish is not required. (3). May not be repeated for credit. Taught in English.

**SAC 381 / AMCULT 381 / LATINOAM 381. Latinas/Latinos and the Media**

Consent of department required. (3). (HU). May not be repeated for credit.

**SAC 400. Dramatic Narrative II**

Consent of instructor required. A 300- (or 400-) level production course in a relevant emphasized area: SAC 300, 301, 302, or 304. (3). May not be repeated for credit.

**SAC 401. Documentary II**

SAC 301, SAC concentrators only. (Prerequisites enforced at registration.) (3). May not be repeated for credit.

**SAC 402. Television II**

SAC 302, SAC concentrators only. (Prerequisites enforced at registration.) (3). May not be repeated for credit.

**SAC 403. Television Sketch Comedy**

Consent of instructor required. SAC 310 or SAC 311, SAC 300 or SAC 302. (3). May not be repeated for credit.

**SAC 404. Topics in Media Production II**

A 300- (or 400-) level production course in the relevant emphasized area: SAC 300, 301, 302, or 306; and permission of instructor. (1 - 3). May be repeated for a maximum of 6 credits. May be elected more than once in the same term.

**SAC 405. Screendance**

Consent of instructor required. A 300 (or 400) level production course in the relevant emphasized area: SAC 300 or 301 and permission of instructor. (3). May not be repeated for credit.

**SAC 406. New Media Practices II**

Consent of instructor required. SAC 306 or equivalent experience and permission of instructor. (3). May not be repeated for credit.

**SAC 410. Screenwriting II: The Rewrite**

SAC 310 and SAC concentrators. (3). May not be repeated for credit.

**SAC 411. Writing for Television II: Pilots**

SAC 311. (Prerequisites enforced at registration.) SAC 290 and 310. (3). May not be repeated for credit.

**SAC 422. Topics in Avant-Garde Film**

SAC 230 or 236. (3). May not be repeated for credit.

**SAC 423. Practicum for the Screenwriter**

SAC 290, 310, and 410. (3). May not be repeated for credit.

**SAC 427. Screenwriting III**

SAC 310 and 410. Limited to students whose work is judged as showing outstanding potential in writing for the screen. (3). May not be repeated for credit.

**SAC 440 / AAS 440. African Cinema**

AAS 200. (3). May not be repeated for credit.

**SAC 441. National Screens**

SAC 230 or 236 or 360. (3). May be repeated for a maximum of 6 credits. May be elected more than once in the same term.

**SAC 455. Topics in Film Studies**

SAC 230 or 236. (3). May be repeated for a maximum of 9 credits. May be elected more than once in the same term.

**SAC 458 / ASIAN 458. Film Culture in Korea**

(3). May not be repeated for credit.

**SAC 461 / WOMENSTD 461. Explorations in Feminist Film Theory**

WOMENSTD 240 or AMCULT 240; and junior standing. (3). May not be repeated for credit.

**SAC 475. Popular Film and TV Culture**

At least one SAC studies course. One 200/300 level course in theory is strongly advised. (e.g. literary theory, feminist theory, Frankfurt school.). (3). (R&E). May not be repeated for credit.

**SAC 480. Internship**

Consent of instructor required. (2). (EXPERIENTIAL). May be repeated for a maximum of 6 credits. May be elected more than once in the same term. Offered mandatory credit/no credit.

**SAC 489. Senior Screenwriting Tutorial**

SAC 410, SAC concentrators only. (Prerequisites enforced at registration.) (3). (INDEPENDENT). May not be repeated for credit.

**SAC 490. Senior Honors Research**

Consent of instructor required. SAC Concentrators only. (1 - 4). (INDEPENDENT). May be repeated for a maximum of 4 credits. May be elected more than once in the same term.

**SAC 495. Senior Honors Seminar**

Consent of instructor required. (1 - 6). May be repeated for a maximum of 6 credits.

**SAC 499. Independent Study**

Consent of instructor required. (1 - 4). (INDEPENDENT). May be repeated for credit. May be elected more than once in the same term. May not be used toward the Global Media Studies academic minor.

**SAC 500. Directed Study in Screen Arts and Cultures**

Consent of instructor required. (1 - 4). (INDEPENDENT). May be repeated for a maximum of 6 credits. May be elected more than once in the same term. Continuing Course. Y grade can be reported at end of the first-term to indicate work in progress. At the end of the second term, the final grade is posted for both term's elections.

## Courses in LSA Slavic Languages & Literatures

### Bosnian, Croatian, and Serbian (BCS)

**BCS 131. First-Year Bosnian/Croatian/Serbian I**

(4). May not be repeated for credit. May not be repeated for credit.

**BCS 132. First-Year Bosnian/Croatian/Serbian II**

BCS 131. (4). May not be repeated for credit. May not be repeated for credit.

**BCS 231. Second-Year Bosnian/Croatian/Serbian I**

BCS 132. (Prerequisites enforced at registration.) (4). May not be repeated for credit. May not be repeated for credit.

**BCS 232. Second-Year Bosnian/Croatian/Serbian II**

BCS 231. (Prerequisites enforced at registration.) (4). (Lang Req). May not be repeated for credit. May not be repeated for credit.

**BCS 350 / JUDAIC 350 / REEES 350. Legacy of the Holocaust in Yugoslav Culture: How and Why We Need to Narrate the Holocaust**

(3). (HU). (R&E). May not be repeated for credit.

**BCS 436. Modern Bosnian/Croatian/Serbian Literature**

(3). May be elected twice for credit.

**BCS 439. Directed Reading of Bosnian/Croatian/Serbian Literature**

Consent of instructor required. (1 - 4). (INDEPENDENT). May be repeated for a maximum of 8 credits.

**BCS 450. In No Man's Land: Walls, Migrations and Human Trafficking****in the Balkans and Mediterranean**

(3). May not be repeated for credit.

### Czech (CZECH)

**CZECH 141. First-Year Czech**

(4). May not be repeated for credit. May not be repeated by credit.

**CZECH 142. First-Year Czech**

CZECH 141. (Prerequisites enforced at registration.) (4). May not be repeated for credit. May not be repeated for credit.

**CZECH 241. Second-Year Czech**

CZECH 142 or 143. (4). May not be repeated for credit. May not be repeated for credit.

**CZECH 315 / SAC 315. The Czech New Wave and Its Legacy**

(3). (HU). (R&E). May not be repeated for credit.

**CZECH 480. Supervised Czech Reading**

Consent of instructor required. (1 - 4). (INDEPENDENT). May be elected twice for credit.

### Polish (POLISH)

**POLISH 121. First-Year Polish**

(4). May not be repeated for credit. May not be repeated for credit. No credit granted to those who have completed or are enrolled in POLISH 123. F.

**POLISH 122. First-Year Polish**

POLISH 121. (4). May not be repeated for credit. May not be repeated for credit. No credit granted to those who have completed or are enrolled in POLISH 123. W.

**POLISH 214 / REEES 214. Rock Poetry and Political Protest in Poland**

(3). (HU). May not be repeated for credit.

**POLISH 215. Heart of Europe: Poland Today**

(3). (HU). May not be repeated for credit.

**POLISH 221. Second-Year Polish**

POLISH 122. (4). May not be repeated for credit. May not be repeated for credit. F.

**POLISH 222. Second-Year Polish**

POLISH 221. (4). (Lang Req). May not be repeated for credit. May not be repeated for credit. W.

**POLISH 314 / SAC 314. Polish Cinema**

(3). (HU). May not be repeated for credit.

**POLISH 321. Third-Year Polish**

POLISH 222. (3). May not be repeated for credit. May not be repeated



for credit. F.

**POLISH 322. Third-Year Polish**

*POLISH 321. (3). May not be repeated for credit. May not be repeated for credit. W.*

**POLISH 324 / MEMS 324. Polish Literature from the Middle Ages to 1795: God's Playground**

*(3). (HU). May not be repeated for credit. No credit granted to those who have completed or are enrolled in POLISH 524.*

**POLISH 325. Polish Literature in the Nineteenth Century: Reading the Stateless Nation**

*(3). (HU). May not be repeated for credit. No credit granted to those who have completed or are enrolled in POLISH 525.*

**POLISH 326. Polish Literature in English: 1890 to Present**

*(3). (HU). May not be repeated for credit. No credit granted to those who have completed or are enrolled in POLISH 526.*

**POLISH 330 / HISTORY 330. Poland from the Medieval to the Modern**

*(4; 3 in the half-term). (HU). May not be repeated for credit.*

**POLISH 331 / HISTORY 331. Poland in the Modern World**

*(4; 3 in the half-term). (HU). May not be repeated for credit.*

**POLISH 357. Polish Drama in Context**

*(3). (HU). May not be repeated for credit.*

**POLISH 421. Fourth-Year Polish I**

*POLISH 322. (3). May not be repeated for credit. May not be repeated for credit.*

**POLISH 422. Fourth-Year Polish II**

*POLISH 421. (3). May not be repeated for credit. May not be repeated for credit.*

**POLISH 450. Directed Polish Reading**

*Consent of instructor required. POLISH 325 and/or 326 and reading knowledge of Polish. (1 - 4). (INDEPENDENT). May be repeated for a maximum of 8 credits.*

**POLISH 491. Senior Honors Course**

*Consent of instructor required. Approval of departmental Honors Committee. (3). May not be repeated for credit. Credit is granted for a combined total of six credits of POLISH 491 and 492. Continuing Course. Y grade can be reported at end of the first-term to indicate work in progress. At the end of the second term, the final grade is posted for both term's elections.*

**POLISH 492. Senior Honors Course**

*Consent of instructor required. Approval of departmental Honors Committee. (3). May be repeated for a maximum of 6 credits. Credit is granted for a combined total of six credits of POLISH 491 and 492.*

## Russian (RUSSIAN)

**RUSSIAN 101. First-Year Russian**

*(5). May not be repeated for credit. May not be repeated for credit. No credit granted to those who have completed or are enrolled in RUSSIAN 103/RCLANG 193 or RUSSIAN 123 or RUSSIAN 511.*

**RUSSIAN 102. First-Year Russian, Continued**

*RUSSIAN 101. (Prerequisites enforced at registration.) (5). May not be repeated for credit. May not be repeated for credit. No credit granted to those who have completed or are enrolled in RUSSIAN 103 or 123 or 512, or RCLANG 193.*

**RUSSIAN 103. Intensive First-Year Russian**

*(8). May not be repeated for credit. Credit is granted from only one course among RUSSIAN 103, 111, 123, or RCLANG 193. No credit is granted to those who have completed or are enrolled in RUSSIAN 101, 102, 511, or 512.*

**RUSSIAN 123. Intensive First Year Russian**

*(8 in the half-term). May not be repeated for credit. May not be repeated for credit. No credit granted to those who have completed or are enrolled in RUSSIAN 101, 102, or RUSSIAN 103/RCLANG 193 or RUSSIAN 511 or 512. Sp, Su.*

**RUSSIAN 125. Russian for Heritage Speakers I**

*Native or near-native speaker or permission of instructor. (3). May not be repeated for credit.*

**RUSSIAN 201. Second-Year Russian**

*RUSSIAN 102 or 103 or 123, or RCLANG 193. (Prerequisites enforced at registration.) (5). May not be repeated for credit. May not be repeated for credit. No credit granted to those who have completed or are enrolled in RUSSIAN 203 or RCLANG 293 or RUSSIAN 223 or 513.*

**RUSSIAN 202. Second-Year Russian, Continued**

*RUSSIAN 201. (Prerequisites enforced at registration.) (5). (Lang Req). May not be repeated for credit. May not be repeated for credit. No credit granted to those who have completed or are enrolled in RUSSIAN 203 or 223 or 514, or RCLANG 293.*

**RUSSIAN 203. Intensive Second Year Russian**

*RUSSIAN 102, 103, or 123 or RCLANG 193. (Prerequisites enforced at registration.) (8). (Lang Req). May not be repeated for credit. No credit granted to those who have completed or are enrolled in RUSSIAN 201, 202, 223, 513 or 514.*

**RUSSIAN 223. Intensive Second Year Russian**

*RUSSIAN 123 or 103 or 102, or RCLANG 123. (Prerequisites enforced at registration.) (8 in the half-term). (Lang Req). May not be repeated for credit. May not be repeated for credit. No credit granted to those who have completed or are enrolled in RUSSIAN 201, 202, or RUSSIAN 203/RCLANG 293. Sp, Su.*

**RUSSIAN 225. Russian for Heritage Speakers II**

*Successful completion of RUSSIAN 225 or permission of instructor. (3).*

*(Lang Req). May not be repeated for credit. May not be repeated for credit. No credit granted to those who have completed or are enrolled in RUSSIAN 301, 302, 303, 515, or 516.*

**RUSSIAN 231. Russian Culture and Society: An Introduction**

*(3). (HU). May not be repeated for credit.*

**RUSSIAN 301. Third-Year Russian**

*RUSSIAN 202, 203, 223, 225, or RCLANG 293. (Prerequisites enforced at registration.) Satisfactory scores on a proficiency test. (4). May not be repeated for credit. May not be repeated for credit. No credit granted to those who have completed or are enrolled in RUSSIAN 303, 325, or 515. F.*

**RUSSIAN 302. Third-Year Russian**

*RUSSIAN 301 or RCLANG 323. (Prerequisites enforced at registration.) (4). May not be repeated for credit. May not be repeated for credit. No credit granted to those who have completed or are enrolled in RUSSIAN 303, 325, or 516.*

**RUSSIAN 303. Third-Year Intensive Russian**

*RUSSIAN 202, 203, 223 or RCLANG 293. (Prerequisites enforced at registration.) (8). May not be repeated for credit. May not be repeated for credit. No credit granted to those who have completed or are enrolled in RUSSIAN 301, 302, 325, 515, or 516. S.*

**RUSSIAN 322. Russia Today**

*(4). (HU). May not be repeated for credit.*

**RUSSIAN 333. Sport in Russia**

*(3). (HU). May not be repeated for credit.*

**RUSSIAN 346. Russian Literature from Romanticism to Realism**

*(3). (HU). May not be repeated for credit.*

**RUSSIAN 347 / RCHUMS 347. Survey of Russian Literature**

*A knowledge of Russian is not required. No knowledge of Russian literature or history is presupposed. (4). (HU). May not be repeated for credit.*

**RUSSIAN 348 / RCHUMS 348. Survey of Russian Literature**

*A knowledge of Russian is not required. (4). (HU). May not be repeated for credit.*

**RUSSIAN 352. Russian Literature of the Eighteenth Century**

*May not be repeated for credit.*

**RUSSIAN 358. Central Asia through Russian Eyes: Cultural Appropriation of an Exotic Land**

*(3). (HU). (R&E). May not be repeated for credit. No credit granted to those who have completed or are enrolled in RUSSIAN 558. Taught in English.*

**RUSSIAN 361. Russian Modernism: Decadence, Symbolism, and the Avant-garde in Russia**

*(3). (HU). May not be repeated for credit. May not be repeated for credit.*

**RUSSIAN 362. Dostoevsky**

*(3). (HU). May not be repeated for credit. May not be repeated for credit.*

**RUSSIAN 364. Anton Chekhov and His Time**

*Permission of instructor. (3). (HU). May not be repeated for credit.*

**RUSSIAN 365. Russian Fantasy and Science Fiction**

*(3). (HU). May not be repeated for credit.*

**RUSSIAN 375. Literature and Empire: Nineteenth-Century Russian Prose**

*(3). (HU). (R&E). May not be repeated for credit.*

**RUSSIAN 391 / MEMS 391. Art, Culture, and Literature in Old Russia**

*(3). (HU). May not be repeated for credit. No credit granted to those who have completed or are enrolled in RUSSIAN 551.*

**RUSSIAN 401. Fourth-Year Russian**

*RUSSIAN 302 or 303. (4). May not be repeated for credit. May not be repeated for credit. No credit granted to those who have completed or are enrolled in RUSSIAN 403 or 517. F.*

**RUSSIAN 402. Fourth-Year Russian**

*RUSSIAN 401. (4). May not be repeated for credit. May not be repeated for credit. No credit granted to those who have completed or are enrolled in RUSSIAN 403 or 518. W.*

**RUSSIAN 430. Supervised Reading of Russian Literature**

*Consent of instructor required. Permission of Department Chair. (1 - 4). (INDEPENDENT). May be elected twice for credit.*

**RUSSIAN 464. Tolstoy**

*(3). May not be repeated for credit. Taught in English. No prior knowledge of Russian literature and culture is necessary. Russian concentrators are expected to read Russian texts.*

**RUSSIAN 466. Gogol**

*Permission of instructor. (3). May not be repeated for credit.*

**RUSSIAN 469. 20th-Century Authors**

*(3). May be repeated for a maximum of 6 credits. Taught in English.*

**RUSSIAN 474. Contemporary Russian Literature**

*(3). May not be repeated for credit. Taught in English.*

**RUSSIAN 477. Russian Culture and National Ideology**

*Permission of instructor. (3). May not be repeated for credit.*

**RUSSIAN 491. Senior Honors Course**

*Consent of instructor required. Approval of departmental Honors*

Committee. (3). (INDEPENDENT). May be repeated for a maximum of 6 credits. Credit is granted for a combined total of six credits of RUSSIAN 491 and 492. Continuing Course. Y grade can be reported at end of the first-term to indicate work in progress. At the end of the second term of RUSSIAN 492, the final grade is posted for both term's elections.

#### **RUSSIAN 492. Senior Honors Course**

Consent of instructor required. Approval of departmental Honors Committee. (3). (INDEPENDENT). May be repeated for a maximum of 6 credits. Credit is granted for a combined total of six credits of RUSSIAN 491 and 492.

#### **RUSSIAN 499. Advanced Seminar in Russian**

RUSSIAN 302 or 303, and 351. (3). May not be repeated for credit. Taught in Russian.

#### **RUSSIAN 551. Old Russian Literature**

Permission of instructor. (3). May not be repeated for credit.

#### **RUSSIAN 552. Russian Literature of the Eighteenth Century**

(3). May not be repeated for credit.

### **Slavic Languages and Literatures (SLAVIC)**

#### **SLAVIC 150. First Year Seminar**

Enrollment restricted to first-year students, including those with sophomore standing. (3). (HU). May be repeated for a maximum of 6 credits.

#### **SLAVIC 151. First Year Seminar**

Enrollment restricted to first-year students, including those with sophomore standing. (4). (FYWR). May not be repeated for credit.

#### **SLAVIC 225. Arts and Cultures of Central Europe**

(3). (HU). (R&E). May not be repeated for credit.

#### **SLAVIC 240. Introduction to Slavic Folklore**

(3). (HU). May not be repeated for credit.

#### **SLAVIC 260. Directed Reading in Slavic Studies**

Consent of instructor required. (1 - 4). May be elected twice for credit.

#### **SLAVIC 261. Introduction to Baltic Cultures**

(3). (HU). May not be repeated for credit.

#### **SLAVIC 270 / JUDAIC 271. Contact and Conflict: Jewish Experience in Eastern Europe through Art, Film and Literature**

(3). (R&E). May not be repeated for credit.

#### **SLAVIC 281 / JUDAIC 281 / NEAREAST 281. Jews in the Modern World: Texts, Images, Ideas**

(4). (HU). (R&E). May not be repeated for credit.

#### **SLAVIC 290. Studies in Eastern European Cultures**

(1 - 3; 1 in the half-term). (HU). May be repeated for a maximum of 3 credits. May be elected more than once in the same term.

#### **SLAVIC 312 / RCHUMS 312. Central European Cinema**

A knowledge of Russian is not required. (3). (HU). (R&E). May not be repeated for credit. Taught in English.

#### **SLAVIC 313 / RCHUMS 313 / SAC 313. Russian and Ukrainian Cinema**

(3). (HU). May not be repeated for credit. F.

#### **SLAVIC 315. Field Work**

Consent of instructor required. Native proficiency or course in Russian, Polish, Czech or Ukrainian language, literature, culture, or history. (1 - 3). (EXPERIENTIAL). May be repeated for a maximum of 6 credits. Offered mandatory credit/no credit.

#### **SLAVIC 395 / HISTORY 332 / POLSCI 395 / REEES 395 / SOC 392.**

**Russia and the Soviet Union: Reform, Revolution, and the Socialist Experiment**

(4; 3 in the half-term). (SS). May not be repeated for credit. May not be counted in a Slavic Department academic minor. F.

#### **SLAVIC 396 / POLSCI 396 / REEES 396 / SOC 393. East Central Europe:**

**Nationalism, Socialism, Democracy**

(3 - 4). (SS). May not be repeated for credit. May not be counted in a Slavic Department academic minor.

#### **SLAVIC 397 / ANTHRCUL 317 / HISTORY 228 / POLSCI 334 / REEES**

**397 / SOC 317. Communism and Capitalism in Eastern Europe**

(4). (SS). May not be repeated for credit. No credit granted to those who have completed or are enrolled in REEES 396 or SLAVIC 396 or POLSCI 396 or HISTORY 333 or SOC 393.

#### **SLAVIC 450. Directed Readings in Slavic Studies**

(1 - 4). (INDEPENDENT). May be elected twice for credit.

#### **SLAVIC 470. Topics in Cultural Studies of Central, Eastern, and Southern Europe**

(1 - 3; 1 in the half-term). May be repeated for a maximum of 9 credits.

#### **SLAVIC 490. Issues in the Cultures of Eastern Europe**

(1). May be repeated for a maximum of 3 credits. May be elected more than once in the same term.

### **Ukrainian (UKR)**

#### **UKR 151. First-Year Ukrainian**

(4). May not be repeated for credit. May not be repeated for credit. No credit granted to those who have completed or are enrolled in UKR 103.

#### **UKR 152. First-Year Ukrainian**

UKR 151. (4). May not be repeated for credit. May not be repeated for credit. No credit granted to those who have completed or are enrolled

in UKR 103.

**UKR 251. Second-Year Ukrainian**

UKR 152 or 103. (Prerequisites enforced at registration.) (4). May not be repeated for credit. May not be repeated for credit. No credit granted to those who have completed or are enrolled in UKR 203.

**UKR 252. Second-Year Ukrainian**

UKR 251. (Prerequisites enforced at registration.) (4). (Lang Req). May not be repeated for credit. May not be repeated for credit. No credit granted to those who have completed or are enrolled in UKR 203.

**UKR 320. An Introduction to Ukrainian Poetry**

Basic Ukrainian reading knowledge. (3). (HU). May not be repeated for credit. May not be repeated for credit.

**UKR 351. 3rd Year Ukrainian I**

UKR 252 with a minimum grade of C. (Prerequisites enforced at registration.) (3). May not be repeated for credit. May not be repeated for credit.

**UKR 352. 3rd Year Ukrainian II**

UKR 351 with a minimum grade of C. (Prerequisites enforced at registration.) (3). May not be repeated for credit. May not be repeated for credit.

**UKR 421. Directed Reading in Ukrainian Literature**

Consent of instructor required. Open to non-concentrators. A knowledge of Ukrainian is not required. (1 - 4). (INDEPENDENT). May be repeated for a maximum of 8 credits.

**UKR 450. Internship in Ukraine**

Consent of instructor required. UKR 152. (1 in the half-term). (EXPERIENTIAL). May be elected twice for credit. Offered mandatory credit/no credit. Rackham credit requires additional work.

## Courses in LSA Sociology

### Sociology (SOC)

**SOC 100. Introduction to Sociology**

Restricted to first- and second-year students. (Prerequisites enforced at registration.) Juniors and seniors electing an introductory course should elect SOC 300 or SOC 302. (4; 3 in the half-term). (SS). May not be repeated for credit. No credit granted to students who have completed or are enrolled in SOC 102, 195, 300, or 302. May not be included in a Sociology major.

**SOC 102. Introduction to Sociology: Special Topics**

Restricted to first- and second-year students. (Prerequisites enforced at registration.) Juniors and seniors electing an introductory course should elect SOC 300 or SOC 302. (4; 3 in the half-term). (SS). May be repeated for a maximum of 8 credits. No credit granted to students who have completed or are enrolled in SOC 100, 195, 300, or 302. May not be included in a Sociology major.

**SOC 105. First Year Seminar in Sociology**

Enrollment restricted to first-year students, including those with sophomore standing. (3). (SS). May not be repeated for credit. May not be included in a Sociology major.

**SOC 122 / ALA 122 / PSYCH 122. Intergroup Dialogues**

Consent of instructor required. (3). (R&E). May be repeated for a maximum of 6 credits. May not be included in a major in Sociology. May not be used as a prerequisite for, or included in, a major in Psychology.

**SOC 195. Honors Introduction to Sociology**

Open to first- and second-year students admitted to the LSA Honors Program. Other first- and second-year students with a minimum GPA of 3.2 may enroll with permission. (4; 3 in the half-term). (SS). May not be repeated for credit. No credit granted to students who have completed or are enrolled in SOC 100, 102, 300, or 302. May not be included in a Sociology major.

**SOC 203. Sociology of Multiculturalism**

(3). (SS). May not be repeated for credit.

**SOC 204. International Migration and the Politics of Membership in a Globalizing World**

(3). (SS). May not be repeated for credit.

**SOC 206. Animals and Society**

(3). (SS). May not be repeated for credit.

**SOC 207. Social Suffering**

No credit for students who have previously taken SOC 295 Topics in Sociology with the topic "Soc of Suffering" (Topic #11). (Prerequisites enforced at registration.) Introduction to Sociology. (3). (SS). May not be repeated for credit.

**SOC 208. Terrorism, Torture, and Violence**

(4; 3 in the half-term). (SS). May not be repeated for credit.

**SOC 210. Elementary Statistics**

(4; 3 in the half-term). (MSA). (BS). (QR/1). May not be repeated for credit. No credit granted to those who have completed or are enrolled in STATS 250, 280, or 412, or ECON 404, 405, 251, 451, and 453, or IOE 265. Those with credit for SOC 210 receive no credit for STATS 180. Sociology majors should elect this course during their sophomore year. Honors majors should enroll in SOC 210, STATS 250 (350) or its equivalent prior to beginning the Honors course sequence in the winter term of the junior year.

**SOC 218 / ALA 220. Foundations of Intergroup Relations**

Not repeatable if you've already taken UC 218/SOC 218. (3). May not be repeated for credit.

**SOC 220 / RCSSCI 220. Political Economy**

(4). (SS). May not be repeated for credit.

**SOC 221 / AMCULT 221. Social Inequality**

(4; 3 in the half-term). (SS). May not be repeated for credit.

**SOC 225. Project Community**

(2 - 4). (EXPERIENTIAL). May be repeated for a maximum of 8 credits. A combined total of eight credits of SOC 225 (and 389), 321, 324, 394, 395, and 396 may be counted toward a major in Sociology. A maximum of four credits of SOC 225 (and 389) may be included in a major in sociology.

**SOC 233. Social Problems**

(4; 3 in the half-term). (SS). May not be repeated for credit.

**SOC 240. Sociology of Culture**

(4; 3 in the half-term). (SS). May not be repeated for credit.

**SOC 250. Politics, Power, and Society**

(4; 3 in the half-term). (SS). May not be repeated for credit.

**SOC 255. Sociology of Music**

One course in sociology or musicology, or extensive personal background in music. (3). (SS). May not be repeated for credit.

**SOC 260 / CMPLXSYS 260. Tipping Points, Bandwagons and Cascades: From Individual Behavior to Social Dynamics**

(3). May not be repeated for credit.

**SOC 270 / WOMENSTD 270. Gender and the Law**

(4; 3 in the half-term). (SS). (R&E). May not be repeated for credit.

**SOC 295. Topics in Sociology**

(1 - 4). (SS). May be elected three times for credit. May be elected more than once in the same term.

**SOC 300. Sociological Principles and Problems**

(3). (SS). May not be repeated for credit. No credit granted to those who have completed or are enrolled in SOC 100, 102, 195, or 302.

**SOC 302. Health and Society: An Introduction to Sociology**

(4). (SS). May not be repeated for credit. No credit granted to those who have completed or enrolled in SOC 100, SOC 102, SOC 195, SOC 300.

**SOC 303 / AAS 303. Race and Ethnic Relations**

An introductory course in Sociology or AAS 201. (4; 3 in the half-term). (SS). (R&E). May not be repeated for credit.

**SOC 304 / AMCULT 304 / LATINOAM 304. American Immigration**

One introductory course in Sociology or American Culture. (4). (SS). (R&E). May not be repeated for credit.

**SOC 305. Introduction to Sociological Theory**

At least one course in introductory sociology. (4; 3 in the half-term). May not be repeated for credit. It is highly recommended that

sociology majors not elect both SOC 305 and SOC 310 in the same term.

**SOC 310. Sociological Research Methods**

Sociology majors. (Prerequisites enforced at registration.) Sociology majors are strongly encouraged to elect SOC 310 in their junior year. Honor majors should elect this course prior to or concurrently with SOC 497 (the first required course in the Sociology Honors sequence). (4; 3 in the half-term). (BS). (QR/1). May not be repeated for credit. No credit granted to those who have completed SOC 312. Meets the sociology Research Methods Requirement. It is highly recommended that sociology majors not elect both SOC 305 and SOC 310 in the same term.

**SOC 313 / RCSSCI 301. Social Science Theory I: From Social Contract to Oedipus Complex**

At least one 200-level social science course. (4). (SS). May not be repeated for credit.

**SOC 315. Economic Sociology**

One introductory course in sociology, economics, or political science. (3 - 4). (SS). May not be repeated for credit.

**SOC 317 / ANTHRCUL 317 / HISTORY 228 / POLSCI 334 / REEES 397 / SLAVIC 397. Communism and Capitalism in Eastern Europe**

(4). (SS). May not be repeated for credit. No credit granted to those who have completed or are enrolled in REEES 396 or SLAVIC 396 or POLSCI 396 or HISTORY 333 or SOC 393.

**SOC 320 / ALA 320 / PSYCH 310. Processes of Intergroup Dialogues Facilitation**

Admission by application. Previous participation in UC 122/PSYCH 122/SOC 122 strongly encouraged. (3). (R&E). May not be repeated for credit.

**SOC 321 / ALA 321 / PSYCH 311. Practicum in Facilitating Intergroup Dialogues**

PSYCH 310/SOC 320 and permission of instructor. (4). (EXPERIENTIAL). May not be repeated for credit. A combined total of eight credits of SOC 225 (and 389), 321, 324, 394, 395, and 396 may be counted toward a major in Sociology.

**SOC 324 / ALA 322 / PSYCH 324. Advanced Practicum in Intergroup Relations**

Consent of instructor required. UC 320/PSYCH 310/SOC 320. (1 - 4). (EXPERIENTIAL). May be repeated for a maximum of 8 credits. A combined total of eight credits of SOC 225 (and 389), 321, 324, 394, 395, and 396 may be counted toward a major in Sociology.

**SOC 325. Sociology of Service Learning**

Consent of instructor required. (4). May be elected twice for credit.

**SOC 335 / AAS 347 / RCSSCI 343. Urban Inequality in America**

One course in introductory sociology. (4; 3 in the half-term). (SS). May not be repeated for credit. No credit granted to students who are enrolled in or have completed SOC 435 or SOC 535.

**SOC 344. Sociology of Families**

One introductory course in Sociology. (4; 3 in the half-term). (SS). May not be repeated for credit.

**SOC 345 / WOMENSTD 348. Sociology of Sexuality**

One introductory course in Sociology. (4; 3 in the half-term). (SS). May not be repeated for credit.

**SOC 346. Sociology of the Body**

One introductory course in Sociology or Women's Studies. (3). May not be repeated for credit.

**SOC 350. Human Rights in the United Nations**

One introductory course in sociology, political science, or other disciplines that examine human rights and globalization. (4). May not be repeated for credit.

**SOC 354. Law and Society**

One introductory course in any social science discipline. (4). (SS). May not be repeated for credit. No credit for students who have taken SOC 454 prior to Fall 2013.

**SOC 368. Criminology**

One introductory course in sociology. (4; 3 in the half-term). (SS). (EXPERIENTIAL). May not be repeated for credit.

**SOC 375 / ALA 228 / PSYCH 312. Intergroup Conflict and Coexistence: Religion, Ethnicity and Culture**

(3). May not be repeated for credit.

**SOC 379 / GERMAN 379 / POLSCI 386. Sports, Politics, and Society**

One introductory course in sociology or political science. (3). (SS). May not be repeated for credit. No credit for those who have completed SOC 212/GERMAN 212.

**SOC 380 / ENVIRON 345 / POLSCI 331. Environmental Public Opinion Analysis**

(3). (SS). May not be repeated for credit.

**SOC 392 / HISTORY 332 / POLSCI 395 / REEES 395 / SLAVIC 395.****Russia and the Soviet Union: Reform, Revolution, and the Socialist Experiment**

(4; 3 in the half-term). (SS). May not be repeated for credit. May not be counted in a Slavic Department academic minor. F.

**SOC 393 / POLSCI 396 / REEES 396 / SLAVIC 396. East Central Europe: Nationalism, Socialism, Democracy**

(3 - 4). (SS). May not be repeated for credit. May not be counted in a Slavic Department academic minor.

**SOC 394. Undergraduate Research**

Consent of instructor required. (1 - 4). (INDEPENDENT). May be repeated for a maximum of 8 credits. A combined total of eight credits of SOC 225 (and 389), 321, 324, 394, 395, and 396 may be counted toward a major in Sociology.

**SOC 395. Independent Study**

Consent of instructor required. Enrollment requires departmental application and permission of supervising faculty. Students must have completed at least one introductory sociology course and one sociology course at the 300 level or above to apply. (1 - 4). (INDEPENDENT). May be repeated for a maximum of 8 credits. May be elected more than once in the same term. A combined total of eight credits of SOC 225 (and 389), 321, 324, 394, 395, and 396 may be counted toward a major in Sociology.

**SOC 396. Undergraduate Internship**

Consent of department required. Students must have a declared major or minor in Sociology, Law, Justice, and Social Change, or Sociology of Health & Medicine. (1). (EXPERIENTIAL). May be repeated for a maximum of 2 credits. May be elected more than once in the same term. A combined total of eight credits of SOC 225 (and 389), 321, 324, 394, 395, and 396 may be counted toward a major in Sociology. Offered mandatory credit/no credit.

**SOC 416 / WOMENSTD 416. Thinking Class: Inequality in Media, Bodies, Environment, and More**

One course in Women's Studies or Sociology. (3). May not be repeated for credit. Rackham credit requires additional work.

**SOC 427 / ASIAN 459. Sociology of Contemporary Korea: Development, Globalization, and Identity**

(3). May not be repeated for credit.

**SOC 430. World Population Dynamics**

(3). (QR/2). May not be repeated for credit. No credit granted to those who have completed or are enrolled in SOC 530.

**SOC 440. Sociology of Work**

One introductory course in Sociology. (3). May not be repeated for credit.

**SOC 445 / WOMENSTD 449. Diagnosis, Sex, and Society**

(3). May not be repeated for credit. Rackham credit requires additional work.

**SOC 447 / WOMENSTD 447. Sociology of Gender**

One introductory course in sociology or women's studies. (3). May not be repeated for credit.

**SOC 450. Human Rights in a Globalizing World: How Human Rights Evolved and Changed the World**

SOC 350; not available to students who previously elected SOC 495 in W16: "Human Rights in a Globalizing World: How Human Rights Evolved and Changed the World" (Topic #65). (Prerequisites enforced at registration.) (3). May not be repeated for credit.

**SOC 451 / WOMENSTD 451. Women and Work**

WOMENSTD 240 (or AMCULT 240) or SOC 100, and one other course in SOC or WOMENSTD. (3). May not be repeated for credit.

**SOC 455 / RELIGION 455. Religion and Society**

One introductory course in sociology. (3). May not be repeated for credit.

**SOC 458. Sociology of Education**

One introductory course in Sociology. (3). May not be repeated for credit.

**SOC 461. Social Movements**

One introductory course in Sociology. (3). May not be repeated for credit.

**SOC 465 / PSYCH 488 / WOMENSTD 465. Sociological Analysis of Deviance**

One introductory course in sociology. (4; 3 in the half-term). May not be repeated for credit.

**SOC 468. Crime and Justice: Inside-Out Prison Exchange Course**

SOC 368: Criminology. (3). (EXPERIENTIAL). May not be repeated for credit.

**SOC 471 / ALA 429 / PSYCH 411. IGR Senior Capstone: Social Justice in the Real World**

Consent of instructor required. UC/SOC 320/321/PSYCH 310/311 or CASC Foundations and 2 related courses in social movements or activism. (3). May not be repeated for credit.

**SOC 472 / PSYCH 381. Advanced Laboratory in Social Psychology**

STATS 250, STATS 280, STATS 425, or MATH 425; and one of the following: PSYCH 111, 112, 114, or 115. (Prerequisites enforced at registration.) PSYCH 280. (3). May not be repeated for credit. Satisfies a Psychology research-based laboratory requirement. F, W, Su.

**SOC 475. Health, Medicine, and Society**

One introductory course in sociology. (4; 3 in the half-term). May not be repeated for credit.

**SOC 476. Sociology of Bioethics**

One introductory course in sociology. (3). May not be repeated for credit.

**SOC 477. Death and Dying**

An introductory course in Sociology: SOC 100, 102, 195, 300, or 302. (Prerequisites enforced at registration.) (4; 3 in the half-term). May not be repeated for credit.

**SOC 488. Organizing Internship**

Consent of department required. (1). May not be repeated for credit. Offered mandatory credit/no credit.

**SOC 489. Organizing: People, Power, and Change**

(3). May not be repeated for credit.

**SOC 495. Topics in Sociology**

One introductory course in Sociology. (1 - 4; 1 - 3 in the half-term). May be elected three times for credit. May be elected more than once

in the same term.

**SOC 497. Honors: Proposal Writing**

Honors Sociology concentrators and [SOC 210 or STATS 350]. (Prerequisites enforced at registration.) (3). May not be repeated for credit. W.

**SOC 498. Honors: Data Collection and Analysis**

SOC 497. (Prerequisites enforced at registration.) (3). May not be repeated for credit.

**SOC 499. Honors: Thesis Writing**

SOC 498. (Prerequisites enforced at registration.) (3). May not be repeated for credit.

## Courses in LSA Statistics

### Statistics (STATS)

**STATS 125. Games, Gambling and Coincidences**

Enrollment restricted to first-year students, including those with sophomore standing. (3). (MSA). (BS). (QR/1). May not be repeated for credit.

**STATS 150. Making Sense of Data**

(3). (MSA). (BS). (QR/1). May not be repeated for credit. No credit granted to those who have completed or are enrolled in SOC 210, IOE 265, STATS 250(350), 280, 400, 412, or ECON 404, ECON 405.

**STATS 180. AP Statistics**

(3). (BS). May not be repeated for credit. Students proceeding to STATS 250 receive full credit for STATS 250 but lose their credit for STATS 180.

**STATS 250. Introduction to Statistics and Data Analysis**

(4). (MSA). (BS). (QR/1). May not be repeated for credit. No credit granted to those who have completed or are enrolled in ECON 451, IOE 265, or STATS 280 or STATS 412. Those with credit for STATS 250 receive no credit for STATS 180.

**STATS 280. Honors Introduction to Statistics and Data Analysis**

Pre-calculus. (4). (MSA). (BS). (QR/1). May not be repeated for credit. No credit granted to those who have completed or are enrolled in ECON 451, IOE 265, SOC 210, STATS 250 or STATS 412.

**STATS 299. Workplace Internship for Undergraduate Statistics Majors**

Consent of department required. (1). (EXPERIENTIAL). May be elected twice for credit. Offered mandatory credit/no credit.

**STATS 306. Introduction to Statistical Computing**

[STATS 250 OR STATS 280 OR STATS 412] AND MATH 116. (Prerequisites enforced at registration.) (4). (BS). May not be repeated for credit.

**STATS 401. Applied Statistical Methods II**

MATH 115, and STATS 180, STATS 250, STATS 280, or STATS 412, or ECON 451, or NRE 438. (4). (BS). (QR/1). May not be repeated for credit. No credit granted to those who have completed or are enrolled in STATS 413.

**STATS 403. Introduction to Quantitative Research Methods**

MATH 115, one of STATS 180, STATS 250, STATS 280, STATS 412 or ECON 451. (4). (BS). May not be repeated for credit.

**STATS 404. Effective Communication in Statistics**

STATS 470 or 480. (2). (BS). May not be repeated for credit. May not be used in the Statistics or Applied Statistics academic minor. Rackham credit requires additional work.

**STATS 406. Computational Methods in Statistics and Data Science**

[MATH 214 OR MATH 217 OR MATH 417] AND [(STATS 250 AND MATH/STATS 425) OR STATS 412 OR STATS 426] AND [STAT 306 OR EECS 183 OR ENGR 101 OR EECS 280]. (3). (BS). May not be repeated for credit. F.

**STATS 408. Statistical Principles for Problem Solving: A Systems Approach**

High school algebra. (4). (BS). May not be repeated for credit. No credit granted to those who have completed or are enrolled in STATS 170.

**STATS 412. Introduction to Probability and Statistics**

Prior or concurrent enrollment in MATH 215. (3). (BS). (QR/1). May not be repeated for credit. No credit granted to those who have completed or are enrolled in ECON 451 or 453, STATS 280, or IOE 265. One credit granted to those who have completed or are enrolled in STATS 250. May not be used in the Statistics or Applied Statistics academic minor. F, W, Sp.

**STATS 413. Applied Regression Analysis**

[MATH 214, OR MATH 217 OR MATH 417] AND [(STATS 250 AND MATH/STATS 425) OR STATS 412 OR STATS 426]. (Prerequisites enforced at registration.) (4). (BS). May not be repeated for credit. No credit granted for those who have completed or enrolled in STATS 500.

**STATS 414. Special Topics in Statistics**

Consent of department required. Varies by term and instructor. (3 - 4). May be elected twice for credit. May be elected more than once in the same term. Rackham credit requires additional work.

**STATS 415. Data Mining and Statistical Learning**

MATH 215 and 217, and one of STATS 401, 406, 412 or 426. (4). (BS). May not be repeated for credit.

**STATS 425 / MATH 425. Introduction to Probability**

MATH 215. (3). (BS). May not be repeated for credit. F, W, Sp, Su.

**STATS 426. Introduction to Theoretical Statistics**

STATS 425 and prior or concurrent enrollment in MATH 217, 412 or

451. (3). (BS). May not be repeated for credit.

**STATS 430. Applied Probability**

STATS 425 or equivalent. (3). (BS). May not be repeated for credit.

**STATS 449 / BIOSTAT 449. Topics in Biostatistics**

STATS 401, 403, or 425 or permission of instructor. (3). (BS). May not be repeated for credit.

**STATS 470. Introduction to the Design of Experiments**

STATS 401 or 412 or 425, or MATH 425. (Prerequisites enforced at registration.) (4). (BS). May not be repeated for credit. F.

**STATS 480. Survey Sampling Techniques**

STATS 401 or 412 or 425 or MATH 425. (Prerequisites enforced at registration.) (4). (BS). May not be repeated for credit. W.

**STATS 485. Capstone Seminar**

Consent of department required. Prior or concurrent enrollment in STATS 426 and STATS 500. Restricted to Statistics concentrators in their final year of study. (3). (BS). May not be repeated for credit.

**STATS 489. Independent Study in Statistics**

Consent of instructor required. (1 - 4). (BS). (INDEPENDENT). May be repeated for a maximum of 4 credits. May not be used in the Statistics or Applied Statistics academic minor.

**STATS 499. Honors Seminar**

Consent of instructor required. Permission of departmental Honors advisor. (2 - 3). (BS). (INDEPENDENT). May not be repeated for credit. May not be used in the Statistics or Applied Statistics academic minor. Continuing Course. Y grade can be reported at end of the first-term to indicate work in progress. At the end of the second term, the final grade is posted for both term's elections. F, W, Sp.

**STATS 525 / MATH 525. Probability Theory**

MATH 451 (strongly recommended). MATH 425/STATS 425 would be helpful. (3). (BS). May not be repeated for credit.

**STATS 526 / MATH 526. Discrete State Stochastic Processes**

MATH 525 or STATS 525 or EECS 501. (3). (BS). May not be repeated for credit.

## Courses in LSA Studies in Religion

### Religion (RELIGION)

#### RELIGION 110 / JUDAIC 120 / NESLANG 101. Elementary Classical Hebrew I

(3). May not be repeated for credit.

#### RELIGION 111 / JUDAIC 121 / NESLANG 102. Elementary Classical Hebrew II

NESLANG 101 (ACABS 101). (3). May not be repeated for credit.



**RELIGION 201 / NEAREAST 202. Introduction to World Religions: Near Eastern**  
(4; 3 in the half-term). (HU). May not be repeated for credit. F.

**RELIGION 202 / ASIAN 220. Introduction to the Study of Asian Religions**  
(4). (HU). May not be repeated for credit.

**RELIGION 204 / ISLAM 216 / NEAREAST 216. Introduction to Islam**  
(4; 3 in the half-term). (HU). May not be repeated for credit. W.

**RELIGION 210 / JUDAIC 220 / NESLANG 201. Intermediate Classical Hebrew I**  
NESLANG 102 (ACABS 102). (3). May not be repeated for credit.

**RELIGION 211 / JUDAIC 221 / NESLANG 202. Intermediate Classical Hebrew II**  
NESLANG 201 (ACABS 201). (3). (Lang Req). May not be repeated for credit.

**RELIGION 223 / ASIAN 223. Krishna Speaks: Bhagavad-Gita**  
(3). (HU). May not be repeated for credit.

**RELIGION 225 / ASIAN 225. Introduction to Hinduism: Origins and Development of Classical Hinduism**  
(3). (HU). May not be repeated for credit.

**RELIGION 230 / ASIAN 230 / PHIL 230. Introduction to Buddhism**  
(4). (HU). May not be repeated for credit.

**RELIGION 231 / ASIAN 231. Introduction to Tibetan Buddhism**  
(4). (HU). May not be repeated for credit.

**RELIGION 234 / ASIAN 234. Buddhism and Death**  
(3). (HU). May not be repeated for credit.

**RELIGION 235 / JUDAIC 235 / NEAREAST 235. Introduction to the Tanakh/Old Testament**  
(3). (HU). May not be repeated for credit.

**RELIGION 236 / NEAREAST 236. Introduction to the New Testament**  
(4; 3 in the half-term). (HU). May not be repeated for credit.

**RELIGION 246 / ANTHRCUL 246 / ISLAM 246. Anthropology of Religion**  
(4). May not be repeated for credit.

**RELIGION 248 / ASIAN 248 / HISTORY 248. Jesus Comes to Asia: Conversion and its Consequences in Asia**  
(4). (HU). (R&E). May not be repeated for credit.

**RELIGION 258 / ENGLISH 258 / JUDAIC 258. The Bible as Literature**  
(3). (HU). May not be repeated for credit.

**RELIGION 260 / HISTORY 269 / JUDAIC 260. Introduction to the Talmud and the Rabbis**  
(3). (HU). May not be repeated for credit.

**RELIGION 262 / PHIL 262. Introduction to the Philosophy of Religion**  
(4; 3 in the half-term). (HU). May not be repeated for credit.

**RELIGION 270 / NEAREAST 242. Introduction to Rabbinic Literature**  
(3). (HU). May not be repeated for credit. No credit granted to those who have completed or are enrolled in HJCS 470 or JUDAIC 470 or HJCS 570 or ACABS 570 or JUDAIC 570. Taught in English.

**RELIGION 272 / ASIAN 272. Introduction to the Study of Korean Religions**  
(3). (HU). May not be repeated for credit.

**RELIGION 277 / JUDAIC 277 / NEAREAST 207. The Land of Israel/Palestine through the Ages**  
(4; 3 in the half-term). (HU). (R&E). May not be repeated for credit. Taught in English.

**RELIGION 280 / JUDAIC 280 / NEAREAST 238. The Historical Jesus in Christianity, Judaism, and Islam**  
(4; 3 in the half-term). (HU). May not be repeated for credit.

**RELIGION 296 / JUDAIC 296 / NEAREAST 255. Perspectives on the Holocaust**  
(4; 3 in the half-term). (HU). (R&E). May not be repeated for credit.

**RELIGION 303 / ASIAN 303. Religious Military Orders of the World**  
(3). (HU). May not be repeated for credit.

**RELIGION 305 / ASIAN 305. Religion and Violence in the Secular World**  
(3). (HU). May not be repeated for credit.

**RELIGION 306 / ASIAN 306. What is Religion?**  
(3). (HU). May not be repeated for credit.

**RELIGION 307 / ASIAN 307 / HISTORY 308. Eat, Pray, Love: Devotional Traditions in South Asia**  
ASIAN 220 or 225. (3). (HU). May not be repeated for credit.

**RELIGION 319 / ASIAN 319. Spirits of Contemporary Japan in Popular Culture**  
ASIAN 200. (3). (HU). May not be repeated for credit.

**RELIGION 323 / ASIAN 325. Zen: History, Culture, and Critique**  
(4). (HU). May not be repeated for credit.

**RELIGION 324 / HISTART 323 / HISTORY 350 / JUDAIC 323 / NEAREAST 383. History of Jewish Visual Culture: From Ancient Mosaics to Jew-Hop Videos**  
(3). (HU). May not be repeated for credit.

**RELIGION 325 / ASIAN 324 / HISTORY 325 / ISLAM 325 / MEMS 325 / NEAREAST 375. The History of Islam in South Asia**  
(4). (HU). (R&E). May not be repeated for credit.

**RELIGION 326 / CLARCH 327 / CLCIV 327 / NEAREAST 355. Jews in the Roman Mediterranean: Archaeology, Religion, and Culture**  
(3). (ID). May not be repeated for credit.

**RELIGION 330 / ISLAM 330 / NEAREAST 330 / RCHUMS 330. The Arabian Nights**  
(3). (HU). May not be repeated for credit.

**RELIGION 331 / ASIAN 331 / PHIL 331. Introduction to Indian Philosophy**  
One introductory course on Hinduism or Buddhism. (3). May not be repeated for credit.

**RELIGION 337 / ASIAN 337. The Ramayana: Text and Context in an Indian Epic**  
ASIAN 220 or ASIAN 206. (3). (HU). May not be repeated for credit.

**RELIGION 346 / HISTART 346. The Moving Image in the Middle Ages**  
(3). (HU). May not be repeated for credit.

**RELIGION 350 / NEAREAST 336. Early Christianity, 50-650 CE**  
(4; 3 in the half-term). (HU). May not be repeated for credit.

**RELIGION 351 / ASIAN 350. Gods, Ghosts, and Gangsters: Popular Religion in China**  
(3). (HU). May not be repeated for credit.

**RELIGION 353 / CLCIV 354 / NEAREAST 354. Ancient Jerusalem: Archaeology, Religion, and Culture**  
(3). (ID). May not be repeated for credit.

**RELIGION 358 / HISTORY 259 / JUDAIC 339 / NEAREAST 339. Israel Before the Exile (587 BCE): Its History & Religion**  
(4; 3 in the half-term). (HU). May not be repeated for credit.

**RELIGION 359 / JUDAIC 335 / NEAREAST 335. History and Religion of Second Temple Judaism**  
(3). (HU). May not be repeated for credit.

**RELIGION 360 / RCHUMS 365. Experiences of Atheism: A History of Skepticism and Unbelief**  
(3). (HU). May not be repeated for credit.

**RELIGION 363 / NEAREAST 322. The Qur'an and Its Interpretations**  
No prior knowledge of Islam is necessary, although some knowledge of the Bible would be helpful. (3). (HU). May not be repeated for credit.

**RELIGION 380. Selected Topics**  
Only one course from RELIGION 380, 387, and 487 may be elected in the same term. (3). May be repeated for a maximum of 6 credits.

**RELIGION 381 / CLCIV 381. Magic and Witchcraft**  
(4). (HU). May not be repeated for credit.

**RELIGION 382 / CLCIV 380 / HISTORY 381 / JUDAIC 380. Ancient Jewish History to 638 CE: From Israelite Origins to Islamic Conquest**  
(3). (ID). May not be repeated for credit. No credit granted for students who have taken both ACABS 322 and ACABS 326.

**RELIGION 387. Independent Study**  
Consent of instructor required. Only once course from RELIGION 380, 387, and 487 may be elected in the same term. (1 - 3). (INDEPENDENT). May be repeated for credit. F, W, Sp/Su.

**RELIGION 400 / ASIAN 400 / HISTORY 422. Indian Religions and Western Thought**  
Junior and above. (3). May not be repeated for credit. Rackham credit requires additional work.

**RELIGION 402. Topics in Religion**  
Junior standing or permission of instructor. (1 - 3; 2 in the half-term). May not be repeated for credit.

**RELIGION 421 / AAS 421 / HISTORY 421 / LACS 421. Religions of the African Diaspora**  
(3). May not be repeated for credit. Rackham credit requires additional work.

**RELIGION 442 / NEAREAST 443. Mythology and Literature of Ancient Mesopotamia**  
(3). May not be repeated for credit.

**RELIGION 448 / PSYCH 418. Psychology and Spiritual Development**  
One of the following: PSYCH 111, 112, 114, or 115, and permission of instructor. (3). May not be repeated for credit.

**RELIGION 455 / SOC 455. Religion and Society**  
One introductory course in sociology. (3). May not be repeated for credit.

**RELIGION 461 / ISLAM 424 / NEAREAST 424. Islamic Intellectual History**  
Taught in English. (3). May not be repeated for credit.

**RELIGION 464 / ASIAN 464 / HISTORY 470. From Mystic Saints to Holy Warriors: Islam in Southeast Asia**  
(3). May not be repeated for credit. Rackham credit requires additional work.

**RELIGION 465 / NEAREAST 421. Islamic Mysticism: Sufism in Time and Space**  
(3). May not be repeated for credit. Taught in English.

**RELIGION 467 / NEAREAST 422. Shi'ism: The History of Messianism and the Pursuit of Justice in Islamdom**  
Junior standing or permission of instructor. (3). May not be repeated

for credit.

**RELIGION 468 / CLCIV 466. Greek Religion**

(3; 2 in the half-term). May not be repeated for credit.

**RELIGION 469 / JUDAIC 468 / NEAREAST 456. Jewish Mysticism**

(3). May not be repeated for credit. Taught in English.

**RELIGION 471 / JUDAIC 467 / NEAREAST 476. Seminar: Topics in the Study of Judaism**

(3). May be repeated for a maximum of 9 credits. May be elected more than once in the same term.

**RELIGION 478 / JUDAIC 478 / NEAREAST 455. Modern Jewish Thought**

(3). May not be repeated for credit. Taught in English.

**RELIGION 485 / ASIAN 485. Religion in China**

Consent of instructor required. ASIAN 230 or permission of instructor.

(3). May be repeated for a maximum of 6 credits.

**RELIGION 487. Independent Study**

Consent of instructor required. Only one course from RELIGION 380, 387 and 487 may be elected in the same term. (1 - 3). (INDEPENDENT). May be repeated for credit. F, W, Sp/Su.

**RELIGION 488 / CLCIV 483 / NEAREAST 437. Christianity and Hellenistic Civilizations**

(3). May not be repeated for credit.

**RELIGION 496 / HISTORY 429 / NEAREAST 432 / WOMENSTD 471. Gender and Sexuality in Pre-Modern Islam**

Students should preferably have had one course in Islamic Studies. (3). May not be repeated for credit. Taught in English.

**RELIGION 497. Senior Honors Thesis**

Consent of instructor required. Open only to seniors admitted to the Honors concentration program with permission of instructor. (1 - 6). (INDEPENDENT). May be repeated for a maximum of 6 credits. Continuing Course. Y grade can be reported at end of the first-term to indicate work in progress. At the end of the second term, the final grade is posted for both term's elections. F, W, Sp.

## Courses in LSA Sweetland Writing Center

### Sweetland Center for Writing (WRITING)

**WRITING 100. Transition to College Writing**

(3). May be repeated for a maximum of 6 credits. Offered mandatory credit/no credit.

**WRITING 119. Style and Editing for International Students**

(1). May be elected three times for credit. Offered mandatory credit/no credit.

**WRITING 120. College Writing for International Students**

(3). May be elected twice for credit. A maximum of two elections of ELI 120 and WRITING 120 is allowed.

**WRITING 200. Writing with Digital and Social Media**

(3). May be elected three times for credit. May be elected more than once in the same term.

**WRITING 201. Writing with Digital and Social Media Mini Course**

(1). May be elected three times for credit. May be elected more than once in the same term.

**WRITING 220. Introduction to the Minor in Writing**

Consent of department required. (3). May not be repeated for credit.

**WRITING 240. Academic Communication for International Students**

(1). May not be repeated for credit.

**WRITING 300. Seminar in Peer Writing Consultation**

Application process and permission of department. (3). May not be repeated for credit.

**WRITING 301. Practicum in Peer Writing Consultation**

WRITING 300 or SWC 300. (Prerequisites enforced at registration.) (1). (EXPERIENTIAL). May not be repeated for credit. Offered mandatory credit/no credit.

**WRITING 302. Global Communication: Rhetorical Approaches to Multilingual Conversation**

Consent of department required. (1). May not be repeated for credit.

**WRITING 303. Special Topics in Coaching Writers**

(1). May be elected four times for credit. May be elected more than once in the same term. Offered mandatory credit/no credit.

**WRITING 305. MWrite Writing Fellows**

Consent of department required. (1). (EXPERIENTIAL). May be elected three times for credit. Offered mandatory credit/no credit.

**WRITING 340. Advanced Writing for International Students: Vocabulary and Grammar in Context**

(1). May be elected twice for credit. Offered mandatory credit/no credit.

**WRITING 350. Excelling in Upper-Level Writing**

Upper-level transfer students concurrently enrolled in at least one course for which they write on a regular basis. (1). May be elected twice for credit. Offered mandatory credit/no credit.

**WRITING 400. Advanced Rhetoric and Research**

Completion of the First-Year Writing Requirement. (3). May not be

repeated for credit. Rackham credit requires additional work.

**WRITING 410. Quantitative Analysis and Writing in the Disciplines**  
Completion of the First-Year Writing Requirement. (3). (QR/2). May be repeated for a maximum of 6 credits. Rackham credit requires additional work.

**WRITING 420. Minor in Writing Capstone**  
Consent of department required. Completion of WRITING 220 and a majority of course requirements for the Minor in Writing program. (3). May not be repeated for credit.

**WRITING 430. The Teaching of Writing**  
Consent of department required. (3). May not be repeated for credit. Rackham credit requires additional work.

## Courses in LSA UG: Curriculum Support

### Applied Liberal Arts (ALA)

**ALA 101. A User's Guide to the Liberal Arts**  
Students cannot enroll if they have completed UC 270, Topic Title "A User's Guide to Liberal Arts". (Prerequisites enforced at registration.) (1). May not be repeated for credit.

**ALA 102. Michigan Community Scholars Program: The Student in the University**  
Michigan Community Scholars Program participant. (1). May not be repeated for credit. Offered mandatory credit/no credit.

**ALA 103. Michigan Community Scholars Program: Academic Decision Making**  
Admission to the Michigan Community Scholars Program. (1). May not be repeated for credit. Offered mandatory credit/no credit.

**ALA 104. Introduction to Research**  
Participant in Michigan Research Community. (1). May not be repeated for credit.

**ALA 105. Digital Research: Critical Concepts and Strategies**  
(1). May not be repeated for credit. No credit granted to those who have completed or are enrolled in UC 170, UC 174, UC 175-176, or UC 177 or ALA 105. Offered mandatory credit/no credit.

**ALA 106. Health Sciences Scholars Program: Perspectives on Health and Health Care**  
Restricted to students enrolled in the Health Sciences Scholars Program. (2). (ID). May not be repeated for credit.

**ALA 107. Women in Science and Engineering Residence Program Seminar**  
Participant in the WISE Residence Program. (1). May not be repeated

for credit.

**ALA 108. STEM Challenges/STEM Success**  
Completion of UC 107. (Prerequisites enforced at registration.) Participation in the WISE Residence Program. (1). May not be repeated for credit.

**ALA 109. Perspectives on Health Care**  
Restricted to students enrolled in the Health Sciences Scholars Program. (2). (ID). May not be repeated for credit.

**ALA 115. The Financially Savvy Student**  
Students cannot enroll if they have already completed UC 170, Topic Title "The Financially Savvy Student". (Prerequisites enforced at registration.) (1 in the half-term). May not be repeated for credit. Offered mandatory credit/no credit.

**ALA 122 / PSYCH 122 / SOC 122. Intergroup Dialogues**  
Consent of instructor required. (3). (R&E). May be repeated for a maximum of 6 credits.

**ALA 125. Positioning Yourself for a Successful Internship**  
Consent of department required. (1 in the half-term). May not be repeated for credit. Offered mandatory credit/no credit.

**ALA 160. Humanities Topics in ALA**  
(1 - 4). (HU). May be repeated for a maximum of 9 credits. May be elected more than once in the same term.

**ALA 161. Social Science Topics in ALA**  
(1 - 4). (SS). May be repeated for a maximum of 9 credits. May be elected more than once in the same term.

**ALA 162. Natural Science Topics in ALA**  
(1 - 4). (NS). May be repeated for a maximum of 9 credits. May be elected more than once in the same term.

**ALA 164. Interdisciplinary Studies Topics in ALA**  
(1 - 4). (ID). May be repeated for a maximum of 9 credits. May be elected more than once in the same term.

**ALA 170. Applied Liberal Arts Topics**  
(1 - 3). May be elected four times for credit. May be elected more than once in the same term. Offered mandatory credit/no credit.

**ALA 171. Making the Most of Michigan**  
(1 in the half-term). May not be repeated for credit. Offered mandatory credit/no credit.

**ALA 206. Health Career Mentorship, Experiences, and Reflections**  
Consent of instructor required. (1). May not be repeated for credit.

**ALA 210. Defining Critical Global Issues**  
Consent of department required. (2). May not be repeated for credit.

**ALA 212. Practicum: Facilitating Global Engagement**

(1). (EXPERIENTIAL). May not be repeated for credit.

**ALA 220 / SOC 218. Foundations of Intergroup Relations**

Not repeatable if you've already taken UC 218/SOC 218. (3). May not be repeated for credit.

**ALA 222. Twenty Two Ways**

(3). (ID). May be elected twice for credit. May be elected more than once in the same term.

**ALA 223 / PSYCH 223. Entrepreneurial Creativity**

No credit is granted for students who previously took UC 270 with the topic "Entrepreneurial Creativity" (#27). (Prerequisites enforced at registration.) (3). May not be repeated for credit.

**ALA 225. Undergraduate Internship**

Consent of department required. (1). (EXPERIENTIAL). May be repeated for a maximum of 2 credits. May be elected more than once in the same term. Offered mandatory credit/no credit.

**ALA 228 / PSYCH 312 / SOC 375. Intergroup Conflict and Coexistence: Religion, Ethnicity and Culture**

May not be repeated for credit.

**ALA 238 / EARTH 238 / ENVIRON 238 / HISTORY 238 / NEAREAST 278. Zoom: A History of Everything**

(4; 3 - 4 in the half-term). (ID). May not be repeated for credit.

**ALA 250. Topics in Critical Issues**

Students cannot enroll if they have already completed 4 instances of ALA 250 or UC 270, Topic Titles Critical Issues in Education, Critical Issues in Health, Critical Issues in Sustainability, or Critical Issues in Detroit. (Prerequisites enforced at registration.) (1). May be repeated for a maximum of 4 credits. May be elected more than once in the same term.

**ALA 256. Innovator's Toolkit**

(3). May not be repeated for credit.

**ALA 260. Humanities Topics in ALA**

(1 - 4). (HU). May be repeated for a maximum of 9 credits. May be elected more than once in the same term.

**ALA 261. Social Science Topics in ALA**

(1 - 4). (SS). May be repeated for a maximum of 9 credits. May be elected more than once in the same term.

**ALA 262. Natural Science Topics in ALA**

(1 - 4). (NS). May be repeated for a maximum of 9 credits. May be elected more than once in the same term.

**ALA 264. Interdisciplinary Topics in ALA**

(1 - 4). (ID). May be repeated for a maximum of 9 credits. May be

elected more than once in the same term.

**ALA 270. Applied Liberal Arts Topics**

Students cannot enroll if they have already completed 4 instances of ALA and/or UC 270. (Prerequisites enforced at registration.) (1 - 3). May be elected four times for credit. May be elected more than once in the same term.

**ALA 276. Student Leadership in Global Contexts**

Consent of instructor required. (2). (EXPERIENTIAL). May be elected twice for credit. Offered mandatory credit/no credit.

**ALA 284. Global Understanding**

Consent of instructor required. (3). May be elected twice for credit. May be elected more than once in the same term.

**ALA 285. Introduction to Intercultural Study**

Consent of instructor required. (1). (EXPERIENTIAL). May be elected four times for credit. Offered mandatory credit/no credit.

**ALA 286. Engaged Learning Abroad**

Consent of instructor required. Students must be concurrently enrolled in an off-campus field learning experience. (1). (EXPERIENTIAL). May be elected four times for credit. Offered mandatory credit/no credit.

**ALA 287. Integrative Intercultural Study**

Consent of instructor required. Immediate past participation in off-campus experiential field-learning opportunity. (EXPERIENTIAL). May be elected four times for credit. Offered mandatory credit/no credit.

**ALA 320 / PSYCH 310 / SOC 320. Processes of Intergroup Dialogues Facilitation**

Admission by application. Previous participation in UC 122/PSYCH 122/SOC 122 strongly encouraged. (3). (R&E). May not be repeated for credit.

**ALA 321 / PSYCH 311 / SOC 321. Practicum in Facilitating Intergroup Dialogues**

PSYCH 310/SOC 320 and permission of instructor. (4). (EXPERIENTIAL). May not be repeated for credit.

**ALA 322 / PSYCH 324 / SOC 324. Advanced Practicum in Intergroup Relations**

Consent of instructor required. UC 320/PSYCH 310/SOC 320. (1 - 4). (EXPERIENTIAL). May be repeated for a maximum of 8 credits.

**ALA 323. IGR Directed Study**

UC 324. (1 - 4). (INDEPENDENT). May be elected eight times for credit.

**ALA 324. Facilitation for Effective Leadership**

Not available to students who have completed UC 370-003, Facilitation for Effective Leadership (Topic #9). (Prerequisites enforced at registration.) (3). May not be repeated for credit.

**ALA 325. Advanced Undergraduate Internship Course**

*Consent of department required. (1). May be elected twice for credit. May be elected more than once in the same term. Offered mandatory credit/no credit.*

**ALA 329. Qualitative and Quantitative Approaches in Research on Intergroup Relations**

*Consent of instructor required. (2). May not be repeated for credit.*

**ALA 360. Humanities Topics in ALA**

*(1 - 4). (HU). May be repeated for a maximum of 9 credits. May be elected more than once in the same term.*

**ALA 361. Social Science Topics in ALA**

*(1 - 4). (SS). May be repeated for a maximum of 9 credits. May be elected more than once in the same term.*

**ALA 362. Natural Science Topics in ALA**

*(1 - 4). (NS). May be repeated for a maximum of 9 credits. May be elected more than once in the same term.*

**ALA 364. Interdisciplinary Topics in ALA**

*(1 - 4). (ID). May be repeated for a maximum of 9 credits. May be elected more than once in the same term.*

**ALA 370. Applied Liberal Arts Topics**

*Students cannot enroll if they have already completed 4 instances of ALA and/or UC 370. (Prerequisites enforced at registration.) (1 - 4). May be elected four times for credit. May be elected more than once in the same term.*

**ALA 375. Skills for College, Career, and Beyond**

*Students cannot enroll if they have already completed UC 370, Topic Title Skills for College, Career, and Beyond. (Prerequisites enforced at registration.) (3). May not be repeated for credit.*

**ALA 410. Organizing for Global Justice**

*(2). May not be repeated for credit.*

**ALA 421. Creating Inclusive Communities**

*Consent of instructor required. (2). (EXPERIENTIAL). May be repeated for a maximum of 4 credits. Offered mandatory credit/no credit.*

**ALA 429 / PSYCH 411 / SOC 471. IGR Senior Capstone: Social Justice in the Real World**

*Consent of instructor required. UC/SOC 320/321/PSYCH 310/311 or CASC Foundations and 2 related courses in social movements or activism. (3). May not be repeated for credit.*

**ALA 470. Applied Liberal Arts Topics**

*Students cannot enroll if they have already completed 4 instances of ALA and/or UC 370. (Prerequisites enforced at registration.) (1 - 4). May be elected four times for credit. May be elected more than once in the same term.*

**ALA 471. Leadership and Facilitation in Community Building**

*Consent of instructor required. (1 - 3). May not be repeated for credit.*

**ALA 472. Advanced Leadership and Facilitation in Community**

*Consent of instructor required. (1 - 3). May be repeated for a maximum of 8 credits.*

**University Courses (UC)**

**UC 101 / NAVSCI 102. Seapower and Maritime Affairs**

*(2). May not be repeated for credit.*

**UC 109 / SI 106. Programs, Information and People**

*(4). May not be repeated for credit.*

**UC 110 / SI 110. Introduction to Information Studies**

*(4). (SS). May not be repeated for credit.*

**UC 150. First-Year Humanities Seminar**

*Enrollment restricted to first-year students, including those with sophomore standing. (3). (HU). May not be repeated for credit.*

**UC 151. First-Year Social Science Seminar**

*Enrollment restricted to first-year students, including those with sophomore standing. (3). (SS). May not be repeated for credit.*

**UC 152. First-Year Natural Science Seminar**

*Enrollment restricted to first-year students, including those with sophomore standing. (3). (NS). (BS). May not be repeated for credit.*

**UC 154. First-Year Interdisciplinary Seminar**

*Enrollment restricted to first-year students, including those with sophomore standing. (3). (ID). May not be repeated for credit.*

**UC 163. Biotechnology and Human Values**

*First-year students only. (4). (NS). (BS). May not be repeated for credit.*

**UC 170. UC Special Topics**

*(1 - 3). May be elected three times for credit. May be elected more than once in the same term. Offered mandatory credit/no credit.*

**UC 201 / AERO 201. U.S. Aviation History & Its Development into Air Power**

*AERO 102/Permission of instructor. (1). May not be repeated for credit.*

**UC 202 / AERO 202. U.S. Aviation History & Its Development into Air Power**

*Permission of instructor. (1). May not be repeated for credit.*

**UC 203 / MILSCI 201. Innovative Tactical Leadership**

*(1). May not be repeated for credit. Counts as credit toward LSA degree.*

**UC 204 / MILSCI 202. Leadership in Changing Environments**

Permission of professor. (1). May not be repeated for credit. Counts as credit toward LSA degree.

**UC 205 / NAVSCI 203. Leadership and Management**

NAVSCI 101,102 OR Pl. (3). May not be repeated for credit.

**UC 213. Entrepreneurial Creativity**

(3). May not be repeated for credit.

**UC 215 / SEAS 215. Contemporary Social Issues in Southeast Asia**

(3). (SS). May not be repeated for credit.

**UC 227. Practicum**

(1 - 3). (EXPERIENTIAL). May be elected three times for credit. Offered mandatory credit/no credit.

**UC 250. Sophomore Humanities Seminar**

Completion of FYWR. (3). (HU). May not be repeated for credit.

**UC 252. Sophomore Natural Science Seminar**

Completion of FYWR. (3). (NS). (BS). May not be repeated for credit.

**UC 254. Sophomore Interdisciplinary Seminar**

Completion of FYWR. (3). (ID). May be elected four times for credit.

May be elected more than once in the same term.

**UC 270. University Courses Special Topics**

(1 - 3). May be elected four times for credit. May be elected more than once in the same term.

**UC 275. Global Intercultural Experience for Undergraduates**

Consent of instructor required. (1 - 2). (EXPERIENTIAL). May be elected twice for credit. Continuing Course. Y grade can be reported at end of the first-term to indicate work in progress. At the end of the second term, the final grade is posted for both term's elections. Offered mandatory credit/no credit.

**UC 280. Undergraduate Research**

Consent of instructor required. First or second year standing. (1 - 4). (EXPERIENTIAL). May be repeated for a maximum of 8 credits. Credit is granted for a combined total of 8 credits in any UROP research courses. Continuing Course. Y grade can be reported at end of the first-term to indicate work in progress. At the end of the second term, the final grade is posted for both term's elections.

**UC 299. Directed Study**

Permission of instructor. (1 - 3). (INDEPENDENT). May be repeated for a maximum of 6 credits.

**UC 300. College Practicum**

Consent of instructor required. (1 - 4). (EXPERIENTIAL). May not be repeated for credit. Offered mandatory credit/no credit.

**UC 301 / MILSCI 301. Leading Small Organizations I**

Permission of Army OEP chair. (2). May not be repeated for credit. Counts for credit toward LSA degree.

**UC 302 / MILSCI 302. Leading Small Organizations II**

MILSCI 301/UC 301. (Prerequisites enforced at registration.)  
Permission of program chairman. (2). May not be repeated for credit.  
Counts as LSA credit toward LSA degree.

**UC 309 / AERO 310. Air Force Leadership and Management**

AERO 202/P.I. (3). May not be repeated for credit. Counts for credit toward LSA degree.

**UC 310 / NAVSCI 310. Fundamentals of Warfare**

Consent of instructor required. (3). May not be repeated for credit.

**UC 327. Advanced Practicum**

(1 - 3). (EXPERIENTIAL). May be elected three times for credit. Offered mandatory credit/no credit.

**UC 370. UC Special Topics**

(1 - 3). May be elected twice for credit.

**UC 390. Disciplinary Study in a Second Language**

Fourth-term language proficiency, and permission of instructor. (1).  
May be elected six times for credit. May be elected more than once in the same term.

**UC 399. Directed Study**

Permission of instructor. (1 - 3). (INDEPENDENT). May be repeated for a maximum of 6 credits.

**UC 401 / MILSCI 401. Leadership and Management**

MILSCI 302 or UC 302. (Prerequisites enforced at registration.)  
Permission of chair of Army OEP. (2). May not be repeated for credit.

**UC 402 / MILSCI 402. Military Professionalism and Professional Ethics**

MILSCI 401/UC 401. (Prerequisites enforced at registration.) (2). May not be repeated for credit.

**UC 403 / NAVSCI 402. Leadership and Ethics**

NAVSCI 203. Non-ROTC students need permission of instructor. (2).  
May not be repeated for credit.

**UC 410 / NAVSCI 410. Evolution of Warfare**

Consent of instructor required. Completion of Naval Science 310 The Fundamentals of Maneuver Warfare. (3). May not be repeated for credit.

**UC 415. Methods in Research for the Natural Sciences**

Consent of department required. (1). (BS). May be elected twice for credit. May be elected more than once in the same term. Offered mandatory credit/no credit.

**UC 416. Methods in Research for the Social Sciences or Humanities**  
Consent of department required. (1). May be elected twice for credit. May be elected more than once in the same term. Offered mandatory credit/no credit. Rackham credit requires additional work.

**UC 427. Capstone Practicum**

(1 - 3). (EXPERIENTIAL). May be elected three times for credit. May be elected more than once in the same term. Offered mandatory credit/no credit.

**UC 455. IMP Senior Seminar**

Consent of department required. (3). May not be repeated for credit.

**UC 470. UC Special Topics**

(1 - 3). May be elected twice for credit. Rackham credit requires additional work.

**UC 499. Directed Study**

Permission of instructor. (1 - 3). (INDEPENDENT). May be repeated for a maximum of 6 credits.

**UC 500 / BIOMEDE 500. Biomedical Engineering Seminar**

(1). (BS). May not be repeated for credit. This course has a grading basis of "S" or "U".

## Courses in LSA Women's Studies

### Women's Studies (WOMENSTD)

**WOMENSTD 119 / PSYCH 119. Gender, Sex, and Sexuality in Science and Medicine**

First year students only. (Prerequisites enforced at registration.) (3). (NS). May not be repeated for credit.

**WOMENSTD 150. Humanities Seminars on Women and Gender**

Enrollment restricted to first-year students, including those with sophomore standing. (3). (HU). May not be repeated for credit.

**WOMENSTD 153. Interdisciplinary Seminar on Women and Gender**

(3). (ID). May not be repeated for credit.

**WOMENSTD 211 / HISTART 211. Gender and Popular Culture**

(4). (HU). May not be repeated for credit. (Gender, Culture, and Representation).

**WOMENSTD 212 / ANTHRCUL 212 / NURS 225. The Global HIV/AIDS Epidemic**

(4). (SS). May not be repeated for credit.

**WOMENSTD 213. Topics in Gender and the Humanities**

(1 - 4). (HU). May not be repeated for credit.

**WOMENSTD 220 / NURS 220. Perspectives in Women's Health**

(3). (SS). (R&E). May not be repeated for credit. (Gender and Health).

**WOMENSTD 225 / PSYCH 225. Psychology of Human Sexuality**

(3). (SS). May not be repeated for credit. Does not count as a breadth course for Psychology or BCN majors.

**WOMENSTD 233 / AMCULT 233. Genes and Society: Comparative and International Perspectives**

(3). (ID). May not be repeated for credit.

**WOMENSTD 235 / AMCULT 235 / ARABAM 235. From Harems to Terrorists: Representing the Middle East in Hollywood Cinema**

(4). (HU). (R&E). May not be repeated for credit.

**WOMENSTD 239 / AMCULT 239. Gender, Sexuality, and Health in America**

(3). (ID). May not be repeated for credit.

**WOMENSTD 240 / AMCULT 240. Introduction to Women's Studies**

(4; 3 in the half-term). (HU). (R&E). May not be repeated for credit.

**WOMENSTD 242 / AMCULT 242. Gender Violence in a Global Context**

(4). (SS). (R&E). May not be repeated for credit.

**WOMENSTD 243 / AMCULT 243 / LATINOAM 243. Latina Women in the U.S.**

(3). (HU). May not be repeated for credit.

**WOMENSTD 245. Introduction to Lesbian, Gay, Bisexual and Transgender and Queer Studies**

(4; 3 in the half-term). (ID). May not be repeated for credit. (LGBTQ and Sexuality Studies).

**WOMENSTD 250. Race, Gender and Nation**

(3). (SS). (R&E). May not be repeated for credit.

**WOMENSTD 257. Special Topics in the Social Sciences**

(1 - 4). (SS). May be elected twice for credit.

**WOMENSTD 270 / SOC 270. Gender and the Law**

(4; 3 in the half-term). (SS). (R&E). May not be repeated for credit.

**WOMENSTD 285 / ASIAN 285. Love and Intimacy in Asia**

(3). (SS). May not be repeated for credit.

**WOMENSTD 291 / PSYCH 291. Introduction to the Psychology of Women and Gender**

PSYCH 111, 112, 114, 115, 116 or WOMENSTD 220. (Prerequisites enforced at registration.) (4). (SS). (R&E). May not be repeated for credit.

**WOMENSTD 293 / AMCULT 293. 20th Century Writing by Women of Color**



(3). (HU). May not be repeated for credit.

**WOMENSTD 295 / AMCULT 295. Sexuality in Western Culture**

(3). (SS). May not be repeated for credit.

**WOMENSTD 296 / HISTORY 296 / PSYCH 296. Gender, Sex Differences, and Addiction: Girls Gone Wild**

(3 - 4; 3 in the half-term). (SS). May not be repeated for credit.

**WOMENSTD 297 / PSYCH 297. Promoting Equity and Inclusion in the University and the Workplace**

(3). (SS). May not be repeated for credit.

**WOMENSTD 300. Men's Health**

(3). (ID). May not be repeated for credit. (Gender and Health).

**WOMENSTD 302 / ANTHRCUL 302 / HISTART 302. Sex and Gender in Japan**

(3). (SS). May not be repeated for credit.

**WOMENSTD 303 / CLCIV 303 / HISTORY 303. Roman Women**

(3). (HU). May not be repeated for credit.

**WOMENSTD 304 / AAS 304. Gender and Immigration: Identity, Race, and Place**

(3). (SS). May not be repeated for credit.

**WOMENSTD 307 / ANTHRCUL 327 / RCSSCI 327. Critical Theory in Medicine and Healing**

One course in ANTHRCUL or RCSSCI or WOMENSTD 240 or WOMENSTD with an SS designation. (4). (SS). May not be repeated for credit.

**WOMENSTD 311 / ASIAN 310. Family in Japan**

(3). (SS). May not be repeated for credit.

**WOMENSTD 313. Special Topics in Gender and the Humanities**

(1 - 4). (HU). May be elected twice for credit.

**WOMENSTD 314 / ENGLISH 314. Gender and Sexuality Studies in Literature**

(3 - 4; 2 - 3 in the half-term). May be repeated for a maximum of 6 credits. May be elected more than once in the same term.

**WOMENSTD 315 / ENGLISH 315. Women and Literature**

(3 - 4; 3 in the half-term). (HU). May be repeated for a maximum of 6 credits.

**WOMENSTD 316 / HISTORY 316 / MEMS 316. Women and Gender in Medieval Europe: 500-1500**

One course in Women's Studies or History. (3). (SS). May not be repeated for credit.

**WOMENSTD 317 / HISTORY 317 / MEMS 317. Women and Gender in**

**Early Modern Europe, 1500-1800**

At least one course in WOMENSTD or HISTORY. (3). (HU). May not be repeated for credit.

**WOMENSTD 318. Women, Politics and Society in India**

One course in Women's Studies or South Asian Studies. (3). May not be repeated for credit.

**WOMENSTD 323 / AAS 323 / HISTORY 388. Black Feminist Thought and Practice**

(3). May not be repeated for credit.

**WOMENSTD 324 / ANTHRCUL 325. Childbirth & Culture**

Sophomore standing. (4). (SS). May not be repeated for credit. (Gender and Health).

**WOMENSTD 327 / HISTORY 327. The History of Sexuality**

(4; 3 in the half-term). (HU). May not be repeated for credit.

**WOMENSTD 328 / AAS 328. Women, Agency and Sexual Safety**

One course in WOMENSTD or AAS. (3). May not be repeated for credit.

**WOMENSTD 330. Feminist Thought**

WOMENSTD 240 or AMCULT 240; OR WOMENSTD 250. (Prerequisites enforced at registration.) (3). May not be repeated for credit.

**WOMENSTD 331. Feminist Theoretical Perspectives in Gender and Health**

WOMENSTD 220 Perspectives in Women's Health. (Prerequisites enforced at registration.) (3). May not be repeated for credit.

**WOMENSTD 332 / ASIAN 342. Gender and Power in Southeast Asia**

(3). (HU). May not be repeated for credit.

**WOMENSTD 334 / HISTART 334. Women in the Visual Arts: Images and Image-Makers**

One course in Women's Studies or History of Art. (3). (HU). May not be repeated for credit. (Gender, Culture, and Representation).

**WOMENSTD 335. Gender and Globalization**

WOMENSTD 240 or SOC 100. (3). May not be repeated for credit. (Gender in a Global Context).

**WOMENSTD 336 / AAS 336 / HISTORY 336. Black Women in the United States, Part I: From the American Revolution through the Women's Era**

AAS 201 (CAAS 201). (3). May not be repeated for credit. No credit granted to those who completed AAS 337 prior to Winter 2012.

**WOMENSTD 341. Special Topics in LGBTQ Studies**

WOMENSTD 240 or 245. (3 - 4). May be elected twice for credit. May be elected more than once in the same term.

**WOMENSTD 342. Special Topics in Gender and Health**

**WOMENSTD 220 or 240.** (3 - 4). May be elected twice for credit. May be elected more than once in the same term. (Gender and Health).

**WOMENSTD 343. Special Topics in Gender, Race, and Ethnicity in the U.S.**

**WOMENSTD 240.** (3 - 4). May be elected twice for credit. May be elected more than once in the same term.

**WOMENSTD 344. Special Topics in Gender, Culture, and Representation**

**WOMENSTD 240.** (3 - 4). May be elected twice for credit. May be elected more than once in the same term. (Gender, Culture, and Representation).

**WOMENSTD 345. Special Topics in Gender in a Global Context**

**WOMENSTD 240 or AMCULT 240.** (3 - 4). May be elected twice for credit. May be elected more than once in the same term. (Gender in a Global Context).

**WOMENSTD 348 / SOC 345. Sociology of Sexuality**

One introductory course in Sociology. (4; 3 in the half-term). (SS). May not be repeated for credit.

**WOMENSTD 350. Nonprofit Management, Community Engagement, and Feminist Practice**

**WOMENSTD 240 or AMCULT 240 or WOMENSTD 220 or NURS 220.** (4; 3 - 4 in the half-term). (EXPERIENTIAL). May not be repeated for credit. (Practice Course). F.

**WOMENSTD 351. Leading Feminism**

One course in Women's Studies. **WOMENSTD 350** is recommended, but not required. (4; 3 in the half-term). (EXPERIENTIAL). May not be repeated for credit. W.

**WOMENSTD 352 / ASIAN 352. Gender, Sexuality, and Power in Premodern China**

At least one course in Asian studies or Women's studies. (3). (HU). May not be repeated for credit.

**WOMENSTD 354 / AAS 354 / HONORS 354 / RCHUMS 354. Race and Identity in Music**

(3). (HU). (R&E). May not be repeated for credit.

**WOMENSTD 356 / AMCULT 331 / HISTORY 356. Health in America: Patterns, Experiences, and Inequalities**

(3 - 4). (ID). (R&E). May not be repeated for credit.

**WOMENSTD 357. Feminist Practices in a Global Context**

One course in Women's Studies. (3). (SS). May not be repeated for credit.

**WOMENSTD 358. Selected Topics in Interdisciplinary Women's Studies**

(1 - 4). (ID). May be elected twice for credit.

**WOMENSTD 360 / AMCULT 342 / HISTORY 368. History of the Family in the U.S.**

(4; 3 in the half-term). (ID). May not be repeated for credit.

**WOMENSTD 363 / AMCULT 363 / ASIANPAM 363. Asian/Pacific Islander American Women**

(3). May not be repeated for credit. (Gender, Race, and Ethnicity in the U.S.).

**WOMENSTD 365 / AAS 365. Global Perspectives on Gender, Health, and Reproduction**

One course in either Women's Studies or AAS. (3). (SS). May not be repeated for credit.

**WOMENSTD 366 / AMCULT 366 / HISTORY 353. Sex and Sexuality in U.S. Popular Culture**

(3). (HU). May not be repeated for credit.

**WOMENSTD 372 / HISTORY 372. Women and Gender in European History**

(3). May not be repeated for credit.

**WOMENSTD 375 / HISTORY 375. A History of Witchcraft: The 1692 Salem Trials in Historical and Cross-Cultural Perspective**

(4). (HU). May not be repeated for credit.

**WOMENSTD 376 / JUDAIC 376. Women and the Bible**

(3). (HU). May not be repeated for credit. (Gender, Culture, and Representation).

**WOMENSTD 377. Topics in Gender and Social Science**

(1 - 4; 1 - 3 in the half-term). (SS). May be elected twice for credit. May be elected more than once in the same term.

**WOMENSTD 380. Special Topics**

**WOMENSTD 240.** (1 - 4). May be repeated for a maximum of 7 credits. May be elected more than once in the same term.

**WOMENSTD 381 / AAS 381 / ENGLISH 380. Intersections: Fictions and Feminisms of the African Diaspora**

AAS 111 (CAAS 111). (3). May not be repeated for credit.

**WOMENSTD 384. Independent Research**

Consent of department required. **WOMENSTD 240** and one additional Women's Studies course. (1 - 3). (INDEPENDENT). May be elected six times for credit.

**WOMENSTD 385. Directed Reading**

Consent of instructor required. **WOMENSTD 240**, and one additional Women's Studies course. (1 - 3). (INDEPENDENT). May be repeated for a maximum of 9 credits. (Reading/Research Course).

**WOMENSTD 389. Junior Honors Seminar**

Consent of department required. (3). May not be repeated for credit.

**WOMENSTD 394 / PSYCH 394. Sex, Sexuality, and Public Policy**  
 PSYCH 111 or any WOMENSTD course. (3). (SS). May not be repeated for credit.

**WOMENSTD 400. Women's Reproductive Health**  
 Upperclass standing. (3). May not be repeated for credit. (Gender and Health). W.

**WOMENSTD 402. Gender and Health Policy**  
 One course in Women's Studies. (3). May not be repeated for credit. Rackham credit requires additional work.

**WOMENSTD 404 / HS 404. Gender Based Violence: From Theory to Action**  
 (2 - 3). May not be repeated for credit.

**WOMENSTD 410. Reproductive Justice: Legal and Ethical Issues**  
 WOMENSTD 220, 240, 270 or 400, or AMCULT 240 or NURS 220 or SOC 270. (3). May not be repeated for credit. Rackham credit requires additional work.

**WOMENSTD 411 / AMCULT 411. Rednecks, Queers, and Country Music**  
 One course in Women's Studies or American Culture. (3). May not be repeated for credit.

**WOMENSTD 414 / ENGLISH 415. Studies in Women and Literature**  
 (3). May not be repeated for credit.

**WOMENSTD 416 / SOC 416. Thinking Class: Inequality in Media, Bodies, Environment, and More**  
 One course in Women's Studies or Sociology. (3). May not be repeated for credit. Rackham credit requires additional work.

**WOMENSTD 421 / SM 421. Gender and Sport**  
 (3). May not be repeated for credit.

**WOMENSTD 422 / POLSCI 401. Feminist Political Theory**  
 Junior standing. (3). May not be repeated for credit.

**WOMENSTD 425 / AMCULT 425. Feminist Practice of Oral History**  
 One course in WOMENSTD or AMCULT. (3). May not be repeated for credit. Rackham credit requires additional work.

**WOMENSTD 428 / ANTHRCUL 428 / RCSSCI 428. Sex Panics in the US and UK since 1890**  
 One course in WOMENSTD or ANTHRCUL or RCSSCI, SOC, or HISTORY. (3). May not be repeated for credit.

**WOMENSTD 429 / COMM 429. Sexual Identities and the Media**  
 (3). May not be repeated for credit.

**WOMENSTD 431. Advanced Topics in LGBTQ Studies**  
 WOMENSTD 245 or 295. (3 - 4). May be elected twice for credit. May

be elected more than once in the same term. Rackham credit requires additional work.

**WOMENSTD 432. Advanced Topics in Gender and Health**  
 WOMENSTD 220 or NURS 220. (3 - 4). May be elected twice for credit. May be elected more than once in the same term. Rackham credit requires additional work.

**WOMENSTD 433. Advanced Topics in Gender, Race and Ethnicity in the U.S.**  
 WOMENSTD 240. (3 - 4). May be elected twice for credit. May be elected more than once in the same term. Rackham credit requires additional work.

**WOMENSTD 434. Advanced Topics in Gender, Culture, and Representation**  
 WOMENSTD 240. (3 - 4). May be elected twice for credit. Rackham credit requires additional work.

**WOMENSTD 435. Advanced Topics in Gender in a Global Context**  
 WOMENSTD 240. (3 - 4). May be elected twice for credit. Rackham credit requires additional work.

**WOMENSTD 438. Gender, Health, and Well-being in Africa**  
 One course in Women's Studies. (3). May not be repeated for credit. Rackham credit requires additional work.

**WOMENSTD 440. Women's Studies Senior Capstone**  
 Women's Studies majors with senior status. (Prerequisites enforced at registration.) (3). May not be repeated for credit. Interdisciplinary seminar required for all senior majors.

**WOMENSTD 441. Senior Honors Seminar I**  
 Consent of department required. (1). May not be repeated for credit. Offered mandatory credit/no credit.

**WOMENSTD 442. Senior Honors Seminar II**  
 Consent of department required. (1). May not be repeated for credit. Offered mandatory credit/no credit.

**WOMENSTD 443 / AAS 443. Pedagogy of Empowerment: Activism in Race, Gender, and Health**  
 AAS 201, WOMENSTD 240 or 220, AMCULT 240, NURS 220. (3). May not be repeated for credit. (Gender and Health).

**WOMENSTD 446 / ANTHRCUL 446. Sex and the City: Urban Geography and Sexual Locations**  
 At least one course in Anthropology, History, Women's Studies, Sociology, LGBTQ Studies, or Urban Studies/Urban Planning. (3). May not be repeated for credit.

**WOMENSTD 447 / SOC 447. Sociology of Gender**  
 One introductory course in sociology or women's studies. (3). May not be repeated for credit.

**WOMENSTD 449 / SOC 445. Diagnosis, Sex, and Society**

*(3). May not be repeated for credit. Rackham credit requires additional work.*

**WOMENSTD 451 / SOC 451. Women and Work**

*WOMENSTD 240 (or AMCULT 240) or SOC 100, and one other course in SOC or WOMENSTD. (3). May not be repeated for credit. (Gendered Lives).*

**WOMENSTD 452 / PSYCH 414. Sexuality and Science**

*One of: PSYCH 111 or PSYCH 112 or any WOMENSTD course. (Prerequisites enforced at registration.) (3). (BS). May not be repeated for credit. Rackham credit requires additional work.*

**WOMENSTD 461 / SAC 461. Explorations in Feminist Film Theory**

*WOMENSTD 240 or AMCULT 240; and junior standing. (3). May not be repeated for credit. (Gender, Culture, and Representation).*

**WOMENSTD 465 / PSYCH 488 / SOC 465. Sociological Analysis of Deviance**

*One introductory course in sociology. (4; 3 in the half-term). May not be repeated for credit.*

**WOMENSTD 471 / HISTORY 429 / NEAREAST 432 / RELIGION 496.****Gender and Sexuality in Pre-Modern Islam**

*Students should preferably have had one course in Islamic Studies. (3). May not be repeated for credit. Taught in English. (Gender in a Global Context).*

**WOMENSTD 487 / NEAREAST 441. Gender and Society in Ancient Egypt**

*Some familiarity with Egypt is helpful. (3). May not be repeated for credit. (Gender in a Global Context).*

**WOMENSTD 490. Honors Thesis**

*Consent of department required. (3). (INDEPENDENT). May not be repeated for credit. (Reading/Research Course). Continuing Course. Y grade can be reported at end of the first-term to indicate work in progress. At the end of the second term of WOMENSTD 491, the final grade is posted for both term's elections. F, W, Sp, Su.*

**WOMENSTD 491. Honors Thesis**

*Consent of department required. (3). (INDEPENDENT). May not be repeated for credit. (Reading/Research Course). F, W, Sp, Su.*

**WOMENSTD 494 / PSYCH 494. Adolescent Sexuality**

*(3). May not be repeated for credit. Rackham credit requires additional work.*

**WOMENSTD 496 / ISLAM 433 / NEAREAST 433. Gender and Representation in the Modern Middle East**

*(3). May not be repeated for credit. (Gender in a Global Context).*

**WOMENSTD 519 / AMCULT 519. Queer Women in the 20th Century**

*(3). May not be repeated for credit.*