

# COLLEGE OF ARTS AND SCIENCES

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### Department of Communication

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### Department of Earth, Ecological and Environmental Sciences

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# COLLEGE OF ARTS AND SCIENCES

## Degrees Offered

### Departmental Majors

Anthropology (B.A.)  
 Art (B.A., B.F.A. with concentrations in ceramics, cyber art, drawing, metals, painting, photography, printmaking and sculpture)  
 Art History (B.A.)  
 Astronomy (B.A.)  
 Biology (B.S.)  
 Chemistry (B.A. or B.S.)  
 Communication (B.A.)  
 Economics (B.A.)  
 English (B.A. with concentrations in literature, American literature, writing and creative writing)  
 Environmental Sciences (B.S.)  
 Environmental Studies (B.A.)  
 Film (B.A.)  
 French (B.A.)  
 Geography and Planning (B.A.)  
 Geology (B.A. or B.S.)  
 German (B.A.)  
 History (B.A.)  
 Linguistics (B.A.)  
 Mathematics (B.A. or B.S. with concentrations in applied mathematics, mathematics with computer science, pure mathematics and statistics)  
 Music (B.A. or B.M. with concentrations in voice, piano, guitar, string, wind and percussion and instrumental jazz)  
 Philosophy (B.A.)  
 Physics (B.S., concentrations in astrophysics and applied physics available; B.A.)  
 Political Science (B.A. with specializations in public administration and legal studies available)  
 Psychology (B.A. with concentrations in preprofessional and liberal arts)  
 Sociology (B.A.)  
 Spanish (B.A.)  
 Theatre (B.A.; theatre concentrations in performance, design tech and theatre studies available; B.F.A. in performance)  
 Women's and Gender Studies (B.A.)

### Interdisciplinary Majors

Africana Studies (B.A.)  
 American Studies (B.A.)  
 Asian Studies (B.A.)  
 European Studies (B.A.)  
 General Studies (B.A. or B.S.)  
 Humanities (B.A.)  
 International Relations (B.A.)  
 Latin American Studies (B.A.)  
 Law and Social Thought (B.A.)  
 Medieval and Renaissance Studies (B.A.)  
 Middle East Studies (B.A.)  
 Paralegal Studies and Pre-Law (2 + 2 B.A.)  
 Paralegal Studies and Spanish (2 + 2 B.A.)  
 Urban Studies (B.A.)

## Interdepartmental Majors

Course work is selected from three related departments. Refer to guidelines later under requirements. The degree may be B.A. or B.S. depending on the departments selected.

## Minors

Africana Studies  
 Anthropology  
 Art  
 Art History  
 Astrophysics  
 Business Administration\*  
 Chemistry  
 Classics  
 Communication  
 Drama, History and Criticism of  
 Disability Studies (*interdisciplinary*)  
 Economics  
 English (*literature, writing*)  
 Film (*film/video, cinema studies*)  
 French (*2 minors, 1 in applied*)  
 German (*2 minors, 1 in applied*)  
 Geography  
 Geology  
 History  
 Japanese  
 Latin American Studies  
 Law and Social Thought  
 Linguistics  
 Mathematics  
 Music (*music theory, music history and literature, jazz, instrumental, vocal, keyboard, music technology*)  
 Philosophy  
 Physics  
 Political Science  
 Psychology  
 Public Administration  
 Sociology  
 Spanish  
 Theatre (*performance, design/technology, theatre studies*)  
 Women's and Gender Studies

\*The business minor requires course work from the College of Business Administration as well as course work in economics and mathematics from the College of Arts and Sciences. Students interested in pursuing a minor in business administration should consult with their adviser and read the business minor entry in the College of Business Administration portion of this catalog.

## A Second Degree at The University of Toledo

A student earning a first degree at The University of Toledo may earn a second bachelor's degree in the College of Arts and Sciences by taking a minimum of 20 additional semester hours and satisfying all requirements for both degrees. The student must take the additional 20 hours in arts and sciences course work, unless the student's major department requires course work outside the college to satisfy major or related requirements.

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An undergraduate with a degree from another institution is considered a transfer student. Such a student is then considered a candidate for a second degree. See requirements for admission with transfer credit from another institution.

### Admission Policies

*Refer to the General Section of this catalog for information on admission requirements for first-year (new) students.*

### Change of College

Students in good standing who wish to change from another college of The University of Toledo to the College of Arts and Sciences should make an appointment with a college adviser in the college Student Services Office to discuss their transfer and have their academic records reviewed. All college requirements, including core and distributive as well as major and related requirements, must be fulfilled as specified in the catalog for the year in which the student enters the College of Arts and Sciences.

### Admission with Transfer Credit from Another Institution

No more than 94 semester hours of credit earned at other institutions may apply toward a degree in the College of Arts and Sciences. Course work from other institutions is accepted at the level at which the course was taught at that institution. Students with transfer credit are generally expected to fulfill all University and college course requirements for a degree in the College of Arts and Sciences as specified in the catalog for the year in which they enter the College of Arts and Sciences. In some cases, not all the credits that transfer into The University of Toledo will apply toward a degree in the College of Arts and Sciences, e.g., developmental courses, excess credits in technical subjects. Transfers from other institutions shall take at least 30 semester hours at The University of Toledo, including 12 semester hours of work in their major field, regardless of the number of hours transferred in the major.

Transfer students should note that The University of Toledo will include all course work taken at all institutions of higher education in the calculation to determine if a student will graduate with honors. All college course work ever taken is computed in determining eligibility for graduation with honors, although no student will be awarded a level of honors above that indicated by The University of Toledo cumulative grade point average (GPA). Note: The University of Toledo requires a minimum of 30 semester hours of standard letter graded courses from UT in order to qualify for graduation with honors.

An applicant who has undertaken courses at a regionally accredited college or university and who submits through the Office of Undergraduate Admission for Adult, Transfer and International Students an official transcript listing courses and grades and giving evidence of good standing will be admitted to the College of Arts and Sciences provided the student has maintained at least a 2.0 GPA on a 4.0 scale.

Exceptions to this minimum admission requirement are rarely made and require the applicant to demonstrate, in a written petition to the Committee on Academic Standing, that there are special circumstances that warrant waiver of the requirement. Approval of the petition is not automatic, and those students who are admitted by petition will be placed

on special probationary status and must meet certain conditions to remain enrolled.

If the college from which the applicant transfers lacks proper accreditation, the student may be denied transfer credit on the basis of the transcript but may be allowed to obtain credit by passing advanced standing examinations with at least a C grade. Official transcripts of records from all schools previously attended must be on file with the Office of Undergraduate Admission for Adult, Transfer and International Students before the student will be permitted to register.

### Requirements for Students with an Associate's Degree

Students holding an associate of arts or associate of science degree from an accredited college are encouraged to enroll in the College of Arts and Sciences and, in many instances, may expect to earn an appropriate baccalaureate upon completion of two years of full-time study. Students with an associate's degree in a technical program will likely require more time to complete a bachelor's degree. The following regulations apply:

- Students must complete the equivalent of the specified University and college core and distributive requirements for a bachelor's degree.
- In all baccalaureate programs, a minimum of 64 hours must be taken at the 2000 - 4000 level; of these a minimum of 32 hours must be taken at the 3000 - 4000 level. Course work from other institutions is accepted at the level at which the course was taught at that institution.
- Students may enroll in any departmental, interdepartmental or interdisciplinary program for which they meet the admission criteria. All of the usual major and related area requirements must be fulfilled as specified in the catalog for the year in which the student entered the College of Arts and Sciences.
- For students with an associate's degree in a technical program, no more than 6 additional hours of credit outside the college may apply toward graduation.

### Readmission of Former Arts and Sciences Students

Students who have withdrawn from the College of Arts and Sciences and The University of Toledo and have not attended any other institution in the interim may be readmitted provided they were eligible to continue enrollment in the college at the time they discontinued attendance. Such students should readmit at the college Student Services Office. Students who have been suspended from the College of Arts and Sciences must submit a written letter of petition. Students who readmit after more than 12 consecutive months must comply with existing college requirements at the time of readmission.

### Honors

Honors work in the College of Arts and Sciences is available to academically talented students through the College Honors program and through individual academic departments.

## Arts and Sciences Honors Program

*David G. Hoch, Director*

### Student Selection and Admission Criteria

Admission to the Honors program of the College of Arts and Sciences is competitive and limited to academically talented students. Students entering directly from high school are admitted based on a review of application materials, which include a high school transcript, references, an essay, an extracurricular resume and ACT or SAT scores. Students with an ACT composite score of 28 or higher (SAT composite of 1240) and a high school GPA of 3.75 or higher are encouraged to apply. Highly motivated students with an ACT composite of at least 25 (SAT composite of 1140) and a high school GPA of at least 3.5 also are considered for admission to the program.

Currently enrolled University of Toledo students and transfer students may apply for admission to the College Honors program if they have (a) completed at least 15, but not more than 60, graded semester hours of college work; and (b) earned a minimum GPA of 3.3 (4.0 scale).

Students are admitted to the College Honors program on a space-available basis.

### Program Requirements

In order to graduate with College of Arts and Sciences Honors, a student must:

- complete all requirements for an approved degree program within the college.
- complete a minimum of 42 semester hours of honors courses, which must include:
  - a. six semester hours of Honors Readings Conference (Readings Conference I and Readings Conference II).
  - b. a minimum of three semester hours selected from either HON 2020 (Multicultural Literatures: The North American Experience) or HON 2030 (Multicultural Literatures: The Non-European World).
  - c. a minimum of six semester hours earned by successful completion of two upper-division interdisciplinary seminars offered through the Honors program (HON 4950 and 4960).
  - d. all of the requirements for Departmental Honors in the student's major. This includes the completion of an Honors thesis or project supervised by a faculty member in the major department. Note: For a student pursuing more than one major or an interdepartmental major, the Departmental Honors requirement may be fulfilled through meeting requirements for one of the student's majors or in an interdisciplinary manner through a program of selected upper-division course work.
- earn a minimum overall GPA of 3.3.

### Retention Standards

To remain in good standing in the College Honors program, a student must:

- earn a minimum overall GPA of 3.0 by the end of the first year (typically at least 30 semester hours); 3.1 by the end of the second year (typically at least 60 semester hours); and 3.2 by the end of the third year (typically at least 90 semester hours).

- make satisfactory progress toward fulfillment of the requirements for a degree with honors in the college.

### Honors Courses (HON)

Honors courses are of two kinds: those offered within the Honors program and those offered by various departments and colleges. Consult the appropriate portion of this catalog for a listing.

### Departmental Honors

Requirements for Departmental Honors designations are set by the various College of Arts and Sciences departments and are described under the departmental entries in this catalog. All departments, however, require successful completion of an Honors thesis or project supervised by a faculty member in that department.

It is possible for a student to fulfill all departmental requirements and earn the Departmental Honors citation upon graduation without participating in the College Honors program. The reverse is not possible, however, as the requirements for Departmental Honors are an integral part of the College Honors program.

### Academic Policies

*Refer to the General Section of this catalog for general academic policies that apply to all students.*

### Academic Advising

Academic advising is a process of helping students derive as many benefits as possible from their education. This occurs when advisers help students to understand themselves and to fulfill their educational, personal and career goals. While the ultimate responsibility for making personal and educational decisions rests with the student, advisers assist by helping to identify and assess alternatives and the consequences of decisions.

Departmental major advisers are faculty who provide specific information about major and minor programs, departmental course offerings, career opportunities and graduate schools and who help students select courses for major, related and other requirements for graduation.

Advising can be much more than selecting courses. The more frequently students arrange to meet with their adviser, the better their needs can be served.

### Student Responsibilities

Students are responsible for correctly selecting courses for their programs of study each semester and for fulfilling all degree requirements. Although advisers will assist wherever possible, the final responsibility rests with the student. Students should use their degree audit reports to track their progress. Students are encouraged to obtain degree audit reports at the college Student Services Office (University Hall 3000) and view their audits on the UT Web for Students.

Students are expected to make sure that they are fulfilling all degree requirements as published in the issue of the catalog of the College of Arts and Sciences under which they entered. Students who have been out of the College of Arts and Sciences for 12 consecutive months are

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responsible for the requirements in the college catalog under which they reenter.

### Declaring or Changing a Major or Minor

To declare a major or minor or change one previously declared, students must fill out a form that is available in the college Student Services Office.

### Sequence of Courses

There is no single prescribed sequence of courses, except that all first-year students should take College Composition I and II. Students should consult the later sections of the catalog devoted to programs of study and course offerings and should review their programs with their academic advisers to ensure that they complete courses in the proper sequences during their four years of study. In addition, students should use their degree audit reports to track their progress.

Students majoring in the areas of humanities and social sciences are expected to defer most of their major work until the junior and senior years except for courses prerequisite to the 3000 level and 4000 level courses in their fields. Outside the major, during the first two years they should be sure to take those courses in the general requirements that are prerequisite to courses they wish to take as juniors and seniors.

Entering students who expect to major in mathematics or in one of the areas of the natural sciences usually should begin the special courses designated as prerequisite for advanced courses in their first year. For example, calculus is a prerequisite for other mathematics courses and for later courses in physics, chemistry and geology. General Chemistry I and II, Biology Fundamentals of Life Science I and II, and physical geology are prerequisites for succeeding courses required for majors in these areas.

### Study Abroad

Students who plan to study abroad must be sure that their proposed course of study is properly accredited. Its academic acceptability should be verified by the college before departure. Students also should ascertain in advance from their advisers whether the course work will count toward their majors or related areas or only be regarded as elective. Credit for foreign language study is subject to the approval and recommendation of the department of foreign languages.

Current information about study abroad programs is generally available from advisers in many college programs and departments and from the Office of Study Abroad.

### Grade Deletion for Repeated Courses

The College of Arts and Sciences permits a maximum of 12 semester hours or the equivalent of 18 quarter hours of course work to be deleted from the GPA calculation. Students who have had their GPAs recomputed under the Academic Forgiveness Policy are not eligible for grade deletions.

Criteria governing grade deletions are given in the General Section of this catalog. Students should check with the college Student Services Office for more specific information on this policy.

### Withdrawal Policy (W, IW, DR Grades)

The number of credit hours of W, IW and DR is limited to 22 hours for all undergraduate students in degree programs in the College of Arts and Sciences. Once a student has accumulated 22 hours of W, IW or DR, further withdrawals will be counted as F's in computation of the student's GPA for purposes of probation or suspension. In addition, students who receive financial aid risk the loss of financial aid if they accumulate excessive hours of W, IW and DR.

Students who transfer into the College of Arts and Sciences from another college at The University of Toledo will bring with them the number of W's, IW's and DR's accumulated in their previous work.

### Academic Probation

A student whose cumulative GPA is less than 2.0 is automatically placed on probation until a 2.0 cumulative GPA is achieved (*See Withdrawal Policy above*). It is recommended that a student on probation not enroll for more than 12 - 14 credits.

### Academic Suspension

Academic suspension means that a student is prohibited from registering at The University of Toledo for a period of at least one semester. Students are subject to academic suspension if their GPA falls below the minimum GPA listed below or they fail to make sufficient progress toward attainment of the degree. (*See Withdrawal Policy*.) Students may remove Incompletes while under suspension. However, no course work taken at any other educational institution during the student's suspension shall be accepted as transfer credit.

A student is subject to academic suspension if the cumulative GPA is less than:

- 1.0 for 10 - 19 hours attempted
- 1.5 for 20 - 29 hours attempted
- 1.7 for 30 - 39 hours attempted
- 1.8 for 40 - 49 hours attempted
- 1.9 for 50 - 59 hours attempted
- 2.0 for 60 or more hours attempted

After accumulating 60 credit hours without suspension, a student may be suspended if the cumulative GPA falls below 2.0 for two consecutive semesters.

### Trial Readmission Policy

After the required suspension period, a student may petition for readmission to the College of Arts and Sciences Committee on Academic Standing. The petition must be received at least one month before the beginning of the semester in which the student wishes to readmit. If the petition is accepted, the college committee will determine the terms of the Conditional Registration Agreement under which the student will be permitted to re-enroll. Suspended students who are granted readmission must maintain the designated GPA for each semester thereafter and meet the conditions of their readmission agreement. Students failing to meet these conditions are subject to a one-year suspension.

### Dismissal Policy

Students who fail to meet the conditions for readmission after their second suspension are subject to dismissal and are not eligible for readmission to the College of Arts and Sciences for at least three years. *Refer to the*

*General Section of this catalog for information on the Academic Forgiveness Policy.*

## Academic Grievance

A student has the responsibility and right to call to the attention of an instructor any grade that the student believes to be in error or unfair. A student may appeal the decision of the instructor, in order, to the department chair, the dean, then to the College Appeals Committee if the problem is not resolved. If the problem is not resolved at the college level, the student may appeal to the Student Grievance Council. (*See also The University of Toledo Student Handbook.*) A student must begin the appeals process no later than the end of the semester following the one in which the grievance arose.

## Statement on Academic Dishonesty

A student found to be academically dishonest by a faculty member may appeal, in order, to the department chair, the dean, the College Appeals Committee and the University Student Grievance Council. The procedures for making an appeal to the Student Grievance Council may be found in The University of Toledo Student Handbook. *Refer to the General Section of this catalog for the policy statement on Academic Dishonesty.*

## College Level Examination Program (CLEP)/Credit by Exam/Advanced Placement

The College of Arts and Sciences will accept a maximum of 24 semester hours of CLEP through successful completion of the General Examinations. Additional credit may be earned through satisfactory scores in individual subject examinations. *See the General Section of the catalog for information on hours of credit awarded for various scores and the scoring for English composition. Refer to the General Section of this catalog for specific information regarding Credit by Exam. Refer to the Arts and Sciences Program of Study section for specific information on Advanced Placement. Credits earned by these mechanisms may be applied as follows:*

### Humanities/Fine Arts:

Students will receive credit for Arts and Sciences distributive requirements in humanities.

### Mathematics:

A student will receive credit for MATH 1180 plus one hour of elective credit for earning 4 hours on the CLEP test or MATH 1180 plus 3 elective hours for earning 6 hours on the CLEP test.

### Natural Sciences:

Students will receive credit for Arts and Sciences distributive requirements in natural sciences.

### Social Sciences:

Students will receive credit for Arts and Sciences distributive requirements in social sciences.

## Foreign Languages:

Students with a score of 45-54 on the foreign language placement test will receive credit for French, German or Spanish 1500; those with a score of 55 to 64 on the foreign language placement test will receive credit for 1500 and 2140; those with a score of 65 or above will receive credit for 1500, 2140 and 2150.

## Pass/No Credit Option

Refer to the General Section of this catalog for an explanation of the pass/no credit grading option. Refer to programs of study in the Arts and Sciences section of this catalog for the limitations on pass/no credit grading in effect for different majors. Undecided students, as a general rule, should not elect pass/no credit grading in major level courses.

## Graduation Evaluation Requirement

Two or three semesters before a student intends to graduate, the student and the student's major adviser must complete a *Graduation Progress Evaluation*. Students with more than one major or one or more minors must be evaluated for the completion of each major and minor. Detailed instructions on the *Graduation Progress Evaluation* and graduation procedures are available at the college office.

## Field Experience/Internship

Policies and procedures for incorporating field experiences or internships in academic programs vary from major to major. Some majors require a field experience or internship; for other majors they are optional. Students should seek information from their major departments and obtain advance approval for all field experiences or internships.

## Degree Requirements

### A. Grade Point Averages

Candidates must earn a minimum overall accumulative average of C (that is, a 2.0 quality point average on a 4.0 scale), as well as a cumulative average of C in the major at The University of Toledo. Some programs require a higher GPA in the major. The cumulative average reflects all grades earned including grades of F and grades in repeated courses. (*Refer to the General Section of this catalog for information on grade deletions and academic forgiveness.*)

### B. Residency Requirement

Students transferring from other institutions must earn at least 30 hours of credit at The University of Toledo; at least 12 of these must be in the major area, and for students pursuing a minor, at least 9 hours must be earned at The University of Toledo. Full-time students must take their last semester, and part-time students their last 12 hours, in residence, unless alternative arrangements have been made in advance with the dean of the College of Arts and Sciences.

### C. Credit Hours

1. Students must complete a minimum of 124 hours of course work that must include both the University and college core and distributive requirements, and either an area of concentration (major) and course work related to the major, or an interdisciplinary program.

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2. In all baccalaureate programs, a minimum of 64 hours must be taken at the 2000-4000 level; of these a minimum of 32 hours must be taken at the 3000- 4000 level.
3. Students are cautioned to make use of their degree audit and review remaining requirements with their adviser before every registration in order that progress toward completion of their requirements may be made in an orderly, timely manner.
4. Insofar as a student can complete the basic courses and the courses required for a chosen major (as outlined in sections E - K below) in fewer than the 124 hours required for a degree, the student may choose elective courses to complete the total of 124 hours subject to the restrictions outlined below.

### D. Credit Restrictions

Total earned hours shown on a student's transcript may not all be applicable to the minimum 124 credits required for a degree, as follows:

1. Students with entrance deficiencies in mathematics and other students who are required to take developmental course work will need to complete additional hours.
2. No more than 4 hours of credit in performing ensembles (MUS 2010/3010 - 2190/3190) will apply toward the degree.
3. No courses in typing, shorthand or keyboarding will apply toward the degree.
4. No more than 2 hours in skill courses in physical education or recreation courses at the 1000 level will apply toward the degree.
5. No more than 2 hours in CHSE 3380 or CHSE 3390 (College Student Leadership Development I and II) will apply toward the degree.
6. Restriction on technical electives: No more than 15 hours of credit earned in colleges other than the College of Arts and Sciences, either at The University of Toledo or elsewhere, will apply toward the degree.  
Exceptions to this restriction may be approved by the student's department in cases where technical courses are determined by departments to satisfy related requirements. In addition, Arts and Sciences students taking a business minor will be permitted to take 21 hours of business courses. However, no additional technical electives beyond these 21 hours will apply to the degree.
7. Duplicate credit: Except for courses identified as repeatable courses, students will not receive credit for repeated courses (taking the same course twice), whether taken at The University of Toledo or elsewhere.
8. The college reserves the right to deny credit for other specific courses and for blanket technical credit not applicable to a student's specific program.

### E. University Core Curriculum Requirements

Students earning bachelor's degrees in all colleges and programs, as well as those pursuing associate of arts and associate of science degrees, are required to complete between 27 and 30 credit hours of courses that comprise the University Core Curriculum. Those courses are distributed in the areas of English composition, humanities/fine arts, social sciences, natural sciences and mathematics, and multicultural studies (see the *General Section* of this catalog for details). It should be noted that some colleges and programs require courses in these areas over and above

those required to fulfill University Core requirements. The student's academic department or college office should be contacted for specific details.

### F. Orientation (ARS 1000) - 1 hour

All new first-year students are required to take orientation. The course is optional for transfer students.

### G. Arts and Sciences Skill Areas Requirements

Students are placed into English composition and mathematics courses by ACT scores or placement tests in those subjects. Students are placed into foreign language courses through placement testing.

1. **English Composition** (University of Toledo core and Arts and Sciences requirement) — 6 hours. Students must pass both Composition I (or Composition I with Workshop, see below) and II with a grade of C or better.
  - a. Native speakers track (for students for whom English is a first language).  
**ENGL 1100** — 5 hours  
*Composition I with Workshop (Developmental course; 3 hours will count toward degree if student earns a grade of C or higher; any student who earns a grade of C or higher will go directly to Composition II; any student who does not pass will go to Composition I).*  
**ENGL 1110** — 3 hours  
*College Composition I*  
**ENGL 1130 (or 1140 - 1230)** — 3 hours  
*College Composition II*
  - b. Nonnative speakers track (for students for whom English is a second language) Students will take an English placement test to determine appropriate level.  
**ENGL 1020** — 3 hours  
*Writing and Grammar for English as a Second Language*  
**ENGL 1110** — 3 hours  
*Composition I*  
**ENGL 1120** — 2 hours  
*Composition I Lab for ESL (corequisite to ENGL 1110).*  
**ENGL 1130 (or 1140 - 1230)** — 3 hours  
*Composition II (A maximum of 3 hours of ENGL 1020 and ENGL 1120 will count toward the degree.)*
2. **Mathematics 1180** (UT core and Arts and Sciences requirement) — 3 hours (may replace with any mathematics course greater than MATH 1180 except MATH 2280).
3. **Foreign Languages** (Arts and Sciences requirement) — 0 to 14 hours (Foreign languages 1110, 1120, 1500, 2140, 2150). Every student is required to demonstrate proficiency in a single foreign language (Arabic, Chinese, French, German, Japanese, Latin or Spanish) through the intermediate (foreign languages 2150) level either by successfully completing a foreign language course at this level or by achieving an appropriate score on a proficiency/ placement test administered by the department of foreign languages that reflects the equivalent.



Students beginning a foreign language should enroll in their chosen language at the elementary 1110 level and will take four semesters of foreign language. Those continuing a foreign language or attempting to demonstrate competency by examination should take a proficiency/placement test. Students with two or more years of French, German or Spanish in high school who place below an intermediate course may enroll in an intensive review course (foreign languages 1500) that covers the material in the first two semesters (foreign languages 1110 and 1120), and then complete the second year courses (foreign languages 2140 and 2150).

## H. Arts and Sciences Distributive Requirements

Students should consult with their advisers in selecting courses that will meet distributive requirements. With their adviser's approval, students may select higher level courses for which they have the prerequisites. With careful planning, students will be able to satisfy both UT Core Curriculum and Arts and Sciences requirements by taking the minimum required hours. A student may take no more than 2 courses (or 2 courses and 1 lab for natural sciences) under each departmental code in satisfying the general education distributive requirements.

1. **Humanities and Fine Arts** (UT core requirement is two courses for 6 hours; Arts and Sciences requires 9-15 hours, depending on student's major).

Students not majoring in the humanities or fine arts will take five courses (15 hours) in the humanities in addition to those taken to meet the English composition and foreign language requirements. Students majoring in the humanities or fine arts will be required to complete one history course, one literature course and one fine arts course. Students may select humanities courses that also will satisfy a UT core humanities or multicultural requirement.

**Required Courses** (for all majors) — 9 hours (see suggested courses listed below):

**English Literature** — 3 hours

**History** — 3 hours

**Fine Arts** — 3 hours (course must be an appreciation or theory course, not a studio or skills course)

**Electives** (for students not majoring in humanities or fine arts)— two courses for 6 hours

Students may select courses from art, art history, classics, communication, dance, English, film, foreign languages (courses higher than 2150 or culture courses 1080 and 1090, or a second foreign language), history, humanities, music, philosophy and theatre.

Among the courses with minimal or no prerequisites are these: ARTH 1500; CLC 1010; COMM 1010, 2000, 3840; ENGL 2710, 2720, 2730, 2740, 2760; FILM 1310; FREN 1080, 1090; GERM 1080, 1090; HIST 1000 through 1120; HUM 1010, 1200, 2220, 2010, 2020; JAPN 1080, 1090; MUS 2200, 2210, 2220, 2240, 2250, 2420; PHIL 1010, 1020, 2200, 2400; REL 1220, 2200; SPAN 1080, 1090, 1100; THR 1010, 1100. However, higher-level humanities courses will satisfy these requirements and may be taken if student has met the prerequisites.

2. **Natural Sciences** (UT core requirement is two courses for 6 hours; Arts and Sciences requirement is three courses for 9 hours).

Students not majoring in a natural science will take 9 hours of courses in natural sciences and mathematics in addition to the course

taken to meet the mathematics requirement. (Because of The University of Toledo core curriculum requirements, students must take two courses from two different departments other than mathematics.) Students majoring in a natural science discipline other than mathematics will meet The University of Toledo core requirements with courses required for their program; students majoring in mathematics must take 6 hours in two natural sciences departments other than mathematics.

Students may select courses from astronomy, biology, chemistry, geology, mathematics and physics. Among the courses with minimal or no prerequisites are: ASTR 1010, 2010, 2020, 2050; BIOL 1120, 1140, 1150, 2010, 2020; BIOL 2100; CHEM 1100, 1150; EES 1010, 1020, 1030, 1040, 1050 ISOM 1020; PHYS 1050, 1300, 1310, 1320, 1330, 1750. However, higher-level natural sciences courses will satisfy this requirement and may be taken if the student has met the prerequisites.

3. **Social Sciences** (UT core requirement is two courses for 6 hours; Arts and Sciences requirement is three courses for 9 hours).

Students majoring in a social science will need to take 6 hours from The University of Toledo core curriculum social sciences requirements. Students not majoring in a social science will take 9 hours of courses in social sciences. Students may select social science courses that will also meet a UT core social science requirement and one multicultural requirement.

Students may select courses from anthropology, communication, economics, geography, political science, psychology and sociology. Among the courses with minimal or no prerequisites are these: ANTH 1020, 2020; ECON 1010, 1150, 1200; GEPL 1010, 1100; PSC 1100, 1400, 1200, 1710; PSY 1010; SOC 1010, 1750. However, higher-level courses will satisfy the social sciences requirement and may be taken if student has met the prerequisites.

## I. Writing Across the Curriculum (WAC) Requirement

Students must pass both Composition I and II with a C or better. The College of Arts and Sciences recommends that these requirements be met before completing 45 hours of course work.

After completing Composition I and II with a C or better, students must pass two writing intensive courses approved by their adviser. The College of Arts and Sciences recommends that the first of these writing courses be completed within the first 65 hours of course work, and the second within the first 90 hours. One of these courses must be taken within the student's major. Students with dual majors must take a writing intensive course in each major. Students with interdisciplinary majors will meet this requirement by selecting courses in consultation with their advisers. Advisers will monitor students' progress to help them complete these requirements in a timely fashion.

Transfer students from institutions that have required writing intensive courses should have their former institution certify that they have completed writing intensive courses comparable to those required in the College of Arts and Sciences. Transfer students who have not taken writing intensive courses must meet the College of Arts and Sciences Writing Across the Curriculum requirements.

## J. Major Area

Every student must complete either a departmental major or an interdepartmental or interdisciplinary major. Courses given in other colleges of the University may be credited to the major only with the approval of the dean of the College of Arts and Sciences upon recommendation of the department chair. Waiver of a required course or the substitution of a course from another department does not necessarily reduce the minimum credits required in the major.

### 1. Departmental Major

See the complete list of departmental majors under “Degrees Offered” earlier in the Arts and Sciences section of this catalog.

The minimum number of semester hours a student must complete for a departmental major is prescribed by the department, but rarely exceeds 34 hours. The maximum number of hours a student may elect for the major within the total 124 hours for a bachelor of arts degree is 40 hours, except in art, music and theatre, where the maximum is 50 hours. For the bachelor of science degree, the maximum is 50 hours. For a bachelor of music degree, see the listing under the department of music and dance. For the bachelor of fine arts degree, see the department of art or department of theatre and film.

A student may have two majors from two different departments provided the requirements of both programs are satisfied. Work in the second major may be accepted as fulfilling the related course requirement upon the approval of the advisers in both departments. A student cannot use courses from the first major to satisfy the second and vice-versa.

### 2. Interdisciplinary Majors

A student may complete one of the interdisciplinary majors if accepted into that particular program. A student completing a departmental major and a second major in an interdisciplinary or interdepartmental major cannot use courses from the first major to satisfy the second or vice-versa. See the complete list of interdisciplinary majors under “Degrees Offered” earlier in the Arts and Sciences section of this catalog.

### 3. Interdepartmental Major

A student who chooses an interdepartmental major must complete at least 60 hours divided approximately equally among three related departments. These 60 hours are in lieu of the prescribed hours in a departmental major and the 18 hours in related courses (see K below).

The student must have at least a C average in all courses attempted in each of the three departments of the interdepartmental major. In planning a program, the student must consult with the interdepartmental adviser of the college to select courses in each area that have the approval of the appropriate department chair.

The three departments selected from the list of departmental majors (found under “Degrees Offered” in the Arts and Sciences section of this catalog) are subject to the approval of the dean and the department chairs concerned. A student completing a departmental major and second major in an interdisciplinary or interdepartmental major cannot use courses from the first major to satisfy the second or vice-versa.

## K. Related Courses

Every student who chooses a departmental major and students in some interdisciplinary majors also must complete a minimum of 18 hours in

courses related to the major. These 18 hours must be in addition to courses taken to fulfill the basic requirements listed above. Each department defines the areas from which courses may be chosen by its majors, and these listings are given in the later sections of this catalog under *Programs of Study*. Related courses must be chosen from courses acceptable for credit in an Arts and Sciences major. Generally, these are upper level courses.

Courses given in other colleges of the University may be credited to the major or to related courses only with the approval of the dean of the College of Arts and Sciences upon recommendation of the department chair.

## L. Minors

Many Arts and Sciences departments offer minors. Departmental requirements for particular minors are given in later sections of the catalog under *Programs of Study*. Students wishing to pursue a minor should consult with an adviser in that department. Courses selected for the minor must be chosen from courses acceptable for credit toward a major in that department. In meeting requirements for some majors, work in the minor may be accepted as fulfilling the 18 hours of related courses, but only with the approval of the student’s major adviser. Students completing a minor cannot use courses from their minor to satisfy requirements in the major. A minimum GPA of 2.0 is required in the minor. Students must complete a minimum of 21 hours for a minor; at least 9 of those hours must be completed at The University of Toledo.

## Premedical, Predental and Preveterinary Program

*Sharon L. Schnarre, adviser*

Students interested in professional medical, dental or veterinary careers may choose to apply for the premedical, predental and preveterinary programs. **Students choosing this option must also complete the requirements for a major in a specific discipline or in an interdisciplinary baccalaureate program.**

To be considered for admission to the premedical, predental and preveterinary programs, students need at least a 3.0 cumulative high school GPA or a minimum ACT composite score of 25 (or SAT combined score of 1140). Students also should have successfully completed a minimum of three years of high school mathematics (Algebra I, Algebra II and Geometry) and high school chemistry. Students not meeting the minimum requirements will be admitted to an Arts and Sciences departmental or interdisciplinary major of their choice or into the bachelor of science general studies major. After achieving a 3.0 cumulative GPA at UT, these students may apply to the premedical adviser for admission to the program after the first year of study.

Because admission to a professional school is very competitive, students need to maintain high GPAs, both cumulative and in the sciences. The premed/predent adviser will continually monitor a student’s academic performance and make recommendations as to whether this program should be continued. If at any time a student’s GPA drops below a 3.0, the student will be dropped from the program unless extenuating circumstances exist, in which case the student will be placed on a probationary status until the grades improve.

The premed/preudent adviser will assist the student in determining the entrance requirements of the professional school being considered, since these requirements vary among schools. In general, these professional schools specify for entrance a core set of science courses that include one year (two semesters) each of biology, general chemistry, organic chemistry, physics and mathematics. Most schools recommend that candidates plan a broad course of study leading to either a B.A. or a B.S. degree in any discipline.

## Programs of Study

### Africana Studies

*Abdul Alkalimat, director and adviser*

### Degrees Offered

Africana Studies offers a program for a bachelor of arts.

Africana Studies is an academic field of study that utilizes the tools of both quantitative and qualitative analyses to focus on the experiences of black people in the African diaspora. The Africana diaspora covers the continent of Africa and the regions of the world where African peoples have lived, especially the Caribbean and the Americas (South, Central and North).

### Requirements for the Undergraduate Major

Students must complete a total of 33 hours in Africana Studies and 18 hours of course work in related disciplines. The required courses are as follows:

#### Africana Studies Core Courses: 21 hours

AFST 1100	Introduction to Africana Studies
AFST 1200	Introduction to the African Experience
AFST 2100	Foundations of Black Intellectual History
AFST 2200	Foundation of Culture in the African Diaspora
AFST 2300	Black Community Research Methods
AFST 2400	Social Policy and the Black Community
AFST 4900	Senior Seminar

#### Electives: 12 hours

(Africana Studies courses at the 3000 level or above)

#### Course work in related disciplines: 18 hours

### Requirements for the Minor

Students must complete a total of 21 hours of course work in Africana Studies as follows:

#### Africana Studies Core Courses (15 hours):

AFST 1100	Introduction to Africana Studies
AFST 1200	Introduction to the African Experience
AFST 4900	Senior Seminar

#### Select one set

AFST 2100	Foundations of Black Intellectual History
AFST 2200	Foundation of Culture in the African Diaspora
<b>or</b>	
AFST 2300	Black Community Research Methods
AFST 2400	Social Policy and the Black Community

#### Electives: 6 hours

(Africana Studies courses at the 3000 level or above)

## American Studies

(THIS PROGRAM IS AN INTERDISCIPLINARY MAJOR.)

*James Campbell, director and adviser*

### Degrees Offered

The American Studies program offers a bachelor of arts degree.

### Degree Requirements

Totaling 40 semester hours, the major consists of 30 semester hours in courses selected from two or three Arts and Sciences departments in consultation with the American Studies faculty committee and 10 hours for designing and writing an extended research paper on a topic on some aspect of American culture. Eighteen hours of related courses round out the major and often leave room for a second major within a four-year course of study.

The American Studies program provides students with a broad understanding and appreciation of American life and culture(s). It is an interdisciplinary major in which work is done independently with a faculty committee and adviser shaping a curriculum to suit a student's individual interests and goals. Majors are exposed to various methodologies — they learn how historians, artists, geographers, philosophers, literary critics, writers, filmmakers, social scientists and artists practice their disciplines. They also have the opportunity to work closely with a small faculty committee in researching and writing a senior thesis. The major is for students who want a multifaceted college experience rather than the traditional single focus of one academic department. Some typical areas of emphasis for American Studies are:

**Culture and Community** — This emphasis is for students whose interests lie in the study of subcultures within American society. Options include occupational, regional, religious, gender or age groups; the disciplinary orientations might include geography, folklore, women's and gender studies and/or cultural anthropology.

**Society and Social Institutions** — Students choosing this emphasis draw their methodology and content from sociology, political science, history and philosophy, and look at the larger social and political forces at work at the macro level of American society.

**Artists' Expressive Culture** — This emphasis focuses on American art, music, dance, literature and film as revelatory of national and regional culture and/or subcultures.

## Anthropology

(ADMINISTERED BY THE DEPARTMENT OF SOCIOLOGY AND ANTHROPOLOGY)

*Seamus P. Metress, undergraduate adviser, honors adviser*

### Degrees Offered

The student will receive a bachelor of arts degree upon completion of the program.

### Requirements for the Undergraduate Major

The major of 33 hours in anthropology must include the following:

- ANTH 2100, 2700, 2750, 2800, 3850, 4760;
- 15 hours of electives in anthropology. Courses in the subfields of anthropology not listed in the catalog can sometimes be arranged

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through independent study (ANTH 4910, 4920 or 4990) with departmental faculty.

The requirement of 18 related hours is to be met with SOC 3290 (Social Statistics), ARTH 2200 (Ethnographic Art) or ARTH 3270 (Topics in Ethnographic Art), ENGL 3730 (Introduction to Folklore), LING 3150 (Linguistic Principles), plus 6 hours of electives. In special circumstances, the undergraduate adviser may approve alternatives to those courses listed above. Students cannot take P/NC in major or related courses.

### Undergraduate Minor in Anthropology

To complete a minor in anthropology students must complete a minimum of 21 hours of course work: 15 hours of core courses in anthropology and an additional 6 hours of advanced course work at the 3000/4000 level in anthropology.

**Core courses** – The following 15 hours comprise the core courses for the minor.

ANTH 2100	Human Society through Film
ANTH 2700	Human Evolution
ANTH 2800	Cultural Anthropology
ANTH 4760	Medical Anthropology
ANTH 3850	Peoples of the World
	<b>or</b>
ANTH 3920	Indians of North America

**Advanced courses** – With the approval of the departmental adviser, select 6 hours of course work at the 3000/4000 level in anthropology.

### Honors in Anthropology

Qualified juniors and seniors may apply to work for Honors in anthropology. The following are requirements for entrance into the Honors program in anthropology.

#### A. Admission:

1. 3.3 minimum GPA in anthropology courses
2. 3.0 minimum cumulative GPA
3. 12 hours completed work in anthropology
4. Qualification as an anthropology major

**B. Requirements:** A student must complete 9 hours of independent work in anthropology. During the final semester before graduation, the student must pass a comprehensive examination or submit a completed honors thesis. Students should discuss their special interests with faculty members or with the honors adviser, who will help identify an appropriate faculty member to guide the honors work.

## Department of Art

*David Guip, chair*

### Degrees Offered

The department of art, located on the Toledo Museum of Art campus, offers courses of study leading to four undergraduate degrees and one graduate degree: the B.F.A. and B.A. in studio fine arts, the B.A. in art history, the B.Ed. in art education and the M.Ed. in art education.

The department of art, housed in the Center for the Visual Arts, the Center for Sculptural Studies and the Glass Crafts Building on the Museum campus, features new instructional facilities with state-of-the-art studios and classrooms. With the exception of some introductory courses in art

and art history, all instruction takes place at the Museum campus, where both day and evening courses are regularly scheduled. The Museum campus is connected with the Bancroft campus by regularly scheduled student shuttle buses. Parking at the Museum campus is available to students who have a valid UT student parking permit.

### Advanced Placement

Incoming freshmen who wish to qualify for advanced placement in studio art should consult with the department of art studio fine art director to arrange for a portfolio review. For entering students who have taken the Advanced Placement test in art history, the Art History program of the department of art will award credit as follows:

**For a score of 3:** ARTH 1500 (3 credits)

**For a score of 4:** ARTH 1500 (3 credits) + ARTH 2980 (3 credits)  
[total 6 credits]

**For a score of 5:** ARTH 1500 (3 credits) + ARTH 2980 (6 credits)  
[total 9 credits]  
*and a waiver for the requirement of ARTH 2000, 2020, 2040 and 2080 for art history majors.*

### Art Education

*David Guip, director of the Art Education program and director of graduate studies in art education*

*David Guip and Katherina Danko-McGhee, undergraduate advisers*

For details on the baccalaureate program in art education, see the College of Education portion of this catalog.

### Art History

*Marc Gerstein, director of the art history program*

*Marc Gerstein, Richard Putney and Mysoon Rizk, undergraduate advisers*

### Bachelor of Arts in Art History

The bachelor of arts program provides a foundation in the history of art and architecture through introductory course work in the styles, subjects and social history of Western and non-Western art and architecture, and through advanced course work and optional directed study in art, architecture, theory and criticism. The program makes extensive use of the collections and research facilities of the Toledo Museum of Art. Internships for credit may be arranged with the Toledo Museum of Art and with other local arts organizations.

### Curriculum in Art History

The curriculum leading to the B.A. in art history requires a minimum of 33 hours of art history courses and a maximum of 40 hours, which must include the following:

- a. At least one course in non-Western art (such as ARTH 2100 Introduction to Asian Art, ARTH 2200 Ethnographic Art or any special course devoted to non-Western art); and
- b. A survey history of Western art composed of a sequence of four three-credit hour courses: ARTH 2000 Aspects of Ancient Art, ARTH 2020 Aspects of Medieval Art, ARTH 2040 History of Renaissance and Baroque Art and ARTH 2080 History of Modern Art. The courses may be taken in any order.

The remaining hours for the major may be selected from any courses offered by the art history program, but must include at least one writing intensive (WAC) course. Majors may elect to pursue up to six hours in Independent Study (ARTH 4990). Independent Study requires the permission of an art history faculty member who will direct the Independent Study project.

The art history major also must take 18 hours of related courses, which must be chosen from courses acceptable for major credit in studio art, anthropology, classical civilization, literature courses in English or in a foreign or classical language (in addition to the college language requirement), basic courses in a second foreign language, history, music history or literature, philosophy or religion, theater or film history, or in other areas approved by the adviser.

## Honors in Art History

To earn the B.A. degree with Honors in art history, the major must fulfill all requirements listed above; in addition, the student must maintain an overall GPA of 3.0, and of 3.5 in the major. In addition to the major requirement for 33 hours in art history courses, the honors major must complete two 2-credit courses, Senior Thesis I and II (ARTH 4910 and ARTH 4920). The thesis must be sponsored and supervised by a member of the art history faculty and shall be approved in final form by that faculty member.

## Minor in Art History

Students may minor in art history through the declaration of the minor with the College of Arts and Sciences and the completion of a minimum of 21 hours of art history courses, which must include the following:

- At least one course in non-Western art (such as ARTH 2100 Introduction to Asian Art, ARTH 2200 Ethnographic Art or any special course devoted to non-Western art); and
- A survey history of Western art composed of four three-credit courses: ARTH 2000 Aspects of Ancient Art, ARTH 2020 Aspects of Medieval Art, ARTH 2040 History of Renaissance and Baroque Art and ARTH 2080 History of Modern Art. The courses may be taken in any order.

The remaining hours for the minor may be selected from any courses offered by the art history program. Minors may elect to pursue up to three hours in Independent Study (ARTH 4990). Independent Study requires the permission of an art history faculty member who will direct the Independent Study project.

## Studio Fine Art

*Rex Fogt, director of the studio fine art program*

*Linda Ames-Bell, Diana Attie, Debra Davis, Rex Fogt, Thomas Lingeman, Joel Lipman, Barbara Miner, Deborah Orloff, Peter Patchen and Arturo Rodriguez, undergraduate advisers*

## Bachelor of Arts Degree in Studio Fine Art

The bachelor of arts program in studio fine art provides the major with a solid foundation in art through introductory courses in drawing, design and the history of art, and also offers concentrated study of at least one specialized area of studio fine art as well as advanced work in art history. The curriculum leading to the B.A. in studio fine art requires a minimum of 33 hours of courses in the major, which must include the following:

- Basic Skills Area:  
9 hours — Foundations  
3 hours — Drawing II
- Foundations will consist of the following core courses:  
ART 1080— Foundations Drawing I 3 hours  
ART 2050— Foundations 2-D Design 3 hours  
ART 2060—Foundations 3-D Design 3 hours  
All students are required to take Foundations 2-D Design and Foundations 3-D Design before they enter a major studio area. All students must take Foundations Drawing I before they enter a 3000 level studio course.
- 12 hours of work in studio fine art chosen from one of the following concentrations: ceramics, cyber art, drawing, metals, painting, photography, printmaking or sculpture.
- 9 hours of course work in studio electives, to be selected in consultation with the adviser; 6 of the 9 hours must be in areas outside of the area of concentration.

Students pursuing the B.A. degree may elect (beyond the minimum of 33 hours in the major) additional courses in studio fine art, provided that the total for the major **does not exceed** 50 hours.

In addition to the 33 hours of course work in art, the studio major pursuing the B.A. degree must take 18 hours of **related** course work, which must be chosen from courses acceptable for major credit, and which must include at least 15 hours in art history. Art history courses must include ARTH 1500 Art in History, at least one course in the history of non-Western art, at least one in Western art, and at least one at the 3000 or 4000 level; it is highly recommended that one of the art history courses be a WAC offering. The remaining hours of related work are to be selected from courses offered in classical civilization, literature courses in English or in a foreign or classical language, history, music theory, music history, theater and theater history, dance, philosophy or religion or in other areas approved by the adviser.

For the entering freshman majoring in studio fine art, ART 1080, ART 2050, ART 2060 and ARTH 1500 should be completed by the end of the sophomore year. Students pursuing the B.A. degree may not elect the PS/NC option in studio fine art or art history courses or in related courses.

Art majors should meet every semester with their adviser, who is assigned through the departmental office.

## Bachelor of Fine Arts Degree in Studio Fine Art

The bachelor of fine arts program, which may be entered through successful application to the studio fine art faculty, provides the major who is preparing for professional commitment to the field of studio fine art with a more intense educational experience. Expanding upon the B.A. program, the B.F.A. curriculum provides the student with a more in-depth experience in the major area of studio concentration, a second area of studio concentration, studio electives and advanced study of the history of art.

Students who are interested in admission to the B.F.A. program (and who have fulfilled the requirements listed below) must apply to the chair of the B.F.A. committee and to the faculty member responsible for the student's major studio area. The student should obtain the appropriate application materials from the chair of the B.F.A. committee or from the

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departmental office. Note: Students must complete a minimum of two semesters of work (6 credit hours) in their major area after acceptance into the program.

Before being admitted to the B.F.A. program, a student must have completed or be in the process of completing 60 semester hours of undergraduate study, which must include 6 hours of drawing (ART 1080, 2080); 6 hours of design (ART 2050, ART 2060) and at least 9 to 12 hours in their area of concentration, plus 6 hours of art history. At the time of application, the student must have maintained at least a 3.0 GPA in all courses in studio fine art and art history.

The curriculum leading to the B.F.A. degree requires 66 hours of courses in the major, which must include the following:

- a) Basic Area: 22 hours composed of 13 hours of drawing (ART 1080, 2080, 3080 and 3090), and 9 hours of design (ART, 2050, ART 2060, plus one course selected from ART 3060 or ART 3070).
- b) Major: 21-24 hours chosen from one of the following studio concentrations: ceramics, cyber art, drawing, metalsmithing, painting, photography, printmaking and sculpture. (As a major, drawing requires 21-24 hours in addition to the basic requirements of 13 hours listed above.)
- c) Minor: 12 hours chosen from one of the following studio concentrations: ceramics, cyber art, design, drawing, metalsmithing, painting, photography, printmaking, and sculpture. (As a minor, drawing or design requires 12 hours in addition to the basic requirements of 13 hours in drawing or 9 hours in design listed above.)
- d) Studio Fine Art Electives: 9-12 hours chosen from three studio areas that differ from those pursued in the basic, major or minor areas.

The department of art reserves the right to review a portfolio of student work to determine whether a major is to be retained in the B.F.A. program. As partial fulfillment of the requirements for the B.F.A. degree, the student also must exhibit, under the supervision of the adviser and/or the B.F.A. Committee, a body of works executed in the media pursued in the major and minor areas of study.

In addition to the 66 hours of course work in art, the studio major pursuing the B.F.A. degree must take 18 hours of **related** course work, which must be chosen from courses acceptable for major credit, and which must include at least 15 hours in art history. Art history courses must include ARTH 1500 Art in History, at least one course in the history of non-Western art, at least one in Western art and at least one at the 3000 or 4000 level; it is highly recommended that one of the art history courses be a WAC offering. The remaining hours of related work are to be selected from courses offered in classical civilization, literature courses in English or in a foreign or classical language, history, music theory, music history, theater and theater history, dance, philosophy or religion or in other areas approved by the adviser.

Students pursuing the B.F.A. degree may not elect the PS/NC option in studio fine art or art history courses or in related courses.

Art majors pursuing the B.F.A. degree must meet every semester with their advisers, who are assigned by the B.F.A. committee.

### Honors in Studio Fine Art

Admission to the B.F.A. program qualifies the student for Departmental Honors in studio fine art. Honors students must maintain an overall GPA

of 3.0 and are subject to annual review by an appropriate committee designated by the studio fine art faculty.

## Requirements for a Minor in Studio Fine Art

The minor in studio fine art provides a general introduction to the use of tools and materials and an understanding of traditional and experimental media for the production of fine art. The minor in studio fine art is further designed to enrich the student's life by increasing her/his awareness of the world by developing skills of visual perception and communication. Students electing to minor in studio fine art must complete 21 hours of course work, including 9 hours of foundations (see below), which provide the basic technical and theoretical skills essential for a fundamental understanding of the discipline as well as a rigorous preparation for the advanced/upper division courses.

**Required Foundations courses:** 9 hours

ART 1080 Drawing I .....	3
ART 2050 Foundations 2-D Design .....	3
ART 2060 Foundations 3-D Design .....	3

**Elective courses:** Upon completion of the required foundations courses, students must take 12 hours distributed in any of the following subject areas: drawing, printmaking, metals, ceramics, sculpture, painting, photography, cyber art or design, with no more than 9 hours in one studio area. A minimum of 6 hours must be in courses at the 3000 level and above.

**Recommended courses:** It is strongly recommended that the following art history survey courses be taken:

ARTH 1500 (Art in History) .....	3
One course in the history of non-Western art .....	3
One course in the history of Western art .....	3

Students must maintain a minimum GPA of 2.0 for all course work in the minor. Candidates for the minor in studio fine art must have their coursework verified and approved by an adviser in studio fine art or the chair of the department prior to making formal application for graduation.

## Asian Studies

(THIS PROGRAM IS AN INTERDISCIPLINARY MAJOR.)

*Gene Chang, director*

### Degrees Offered

The Asian Studies program offers a bachelor of arts degree.

### Degree Requirements

This program is designed to provide the student with a comprehensive and systematic training in Asian affairs for a liberal education and career preparation. Emphasis is placed on political science, history, geography, economics and foreign language. In addition to academic courses, the Asian Studies Institute, through the Center for International Studies and Programs, sponsors lectures, seminars and study abroad programs.

In addition to the general education requirements of The University of Toledo and the College of Arts and Sciences, students will take 33 hours in Asian Studies, including:

GEPL 3120
9 hours chosen from history
9 hours chosen from political science

12 hours of electives chosen from disciplines other than geography, history and political science

With the approval of the adviser, some of the elective hours may be chosen from independent study courses offered by various departments.

Majors are encouraged to take Chinese or Japanese for their foreign language requirement.

In addition to the 33 hours in the major, students are required to take 18 hours in related courses in humanities and social sciences chosen in consultation with the adviser. Under special circumstances, certain courses in other colleges may be used to satisfy the related requirement.

## Astronomy

(ADMINISTERED BY THE DEPARTMENT OF PHYSICS AND ASTRONOMY)

*Karen Bjorkman (Adolph Witt for 2002-2003), undergraduate adviser*

## Degrees Offered

The department of physics and astronomy offers a program of study leading to the bachelor of arts in astronomy.

## Requirements for the Bachelor of Arts in Astronomy

The B.A. in astronomy program consists of 33 hours of required astronomy and physics courses in the department of physics and astronomy, 8 hours of calculus and at least 10 additional hours in the natural sciences and mathematics, chosen with the adviser's approval. This program is intended to provide the combination of fundamental physics, together with both general and advanced astronomy, required for a career in astronomy or a related area. It also has the flexibility required by students who wish to pursue interdisciplinary studies or prepare for careers in teaching or other professions requiring a fundamental understanding of the physical sciences.

**Basic astronomy sequence:** The sequence ASTR 2010-2020 (6 hours) is required.

**Advanced astronomy courses:** The advanced courses ASTR 4810, 4820, 4880 (9 hours) are all required.

**Physics courses:** Either the sequence PHYS 2130-2140 (10 hours) or the sequence PHYS 2070-2080-2100 (12 hours) is required. In addition PHYS 3070, 3180, and 3610 (8 hours) are required.

**Required mathematics courses:** MATH 1850, 1860 (8 hours) are required.

**Other courses in related areas:** At least 10 additional hours in natural sciences and mathematics, chosen with adviser's approval. Possibilities include BIOL 2150, 2160, 2170, 2180; CHEM 1230, 1240, 1280, 1290; GEOL 1010, 2210, 2220; MATH 1890, 2850, 3860.

**Free electives:** Elective hours total 29-43 and may include, for example, ASTR 4800, and ASTR 2310, 2320, 2330, 2340.

## Department of Biological Sciences

*Patricia R. Komuniecki, chair and adviser for Salford University exchange program*

*Lirim Shemshedini, graduate adviser*

*Charles Creutz, undergraduate adviser (medical technology)*

*Ernest F. DuBrul, Departmental Honors adviser*

*Scott Leisner, undergraduate adviser*

## Degrees Offered

The department of biological sciences offers a degree program for a bachelor of science.

## Advanced Placement

Students with a score of 3 will receive credit for BIOL 1120; students with a score of 4 will receive credit for BIOL 2150; students with a score of 5 will receive credit for BIOL 2150 and 2170.

Students earning AP scores of 4 or 5 may receive credit for BIOL 2160 and/or BIOL 2180 upon evaluation of their AP laboratory materials by the department of biological sciences.

## Requirements for the Bachelor of Science in Biology

The B.S. program requires at least 34 hours of biology and includes a core of BIOL 2150, 2160, 2170, 2180, 3010, 3030 and 3070 (or 3410). In addition, students must complete at least 12 hours of biology elective courses numbered above BIOL 3000, which must include at least two courses with laboratory or field experiences. Undergraduate research satisfies the laboratory requirement. Finally, students must complete BIOL 4700 in their final year.

Cognate course work in mathematics, physics and chemistry also is required as follows: MATH 1750 and 1760 or MATH 1850 and 1860; PHYS 2070 and 2080 or PHYS 2130 and 2140; CHEM 1230, 1240, 1280, 1290, 2410, 2420, 2460.

All courses for major or related area credit toward the above degree program will be available as either a graded or a P/NC course.

## Honors in Biology

The department of biological sciences Honors program is available for qualified majors. Admission is by invitation and is based on performance in required biology courses completed during the freshman and sophomore years. Potential students should indicate their interest in this program to the departmental Honors adviser before the beginning of the sophomore year.

To receive an undergraduate degree with Honors in biology, all requirements for the B.S. degree must be completed. In addition, the program of study must include Honors sections of at least two biology courses. Honors students must select a faculty research director, complete six credits of Undergraduate Research/Honors Thesis (BIOL 4910, which cannot be counted as required electives), prepare a senior thesis for submission to the department before completion of the senior year, present the research to the department, and maintain a GPA of 3.2 overall and in biology courses.

The senior thesis may be fulfilled in one of three ways:

1. Laboratory research in a faculty member's laboratory;
2. Laboratory research in a summer or academic year program in which the student carries out full-time independent research for at least

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10 weeks under the direction of a senior scientist on a topic approved by the departmental Honors adviser;

3. Laboratory research in the laboratory of a senior scientist who is not a member of the department of biological sciences.

Options 2 and 3 must be approved in advance by the departmental Honors adviser, who will monitor progress and direct the 4910 courses.

### Junior Year Studies in England for Biology Majors

The College of Arts and Sciences participates in a well-established exchange program with the University of Salford, England. Selected Toledo students have the opportunity to spend their junior year at Salford. Participants in the program will pay their instructional and general fees to The University of Toledo. Eligibility to participate in the program is based on criteria established by the department of biological sciences.

Information on the program may be obtained from the departmental exchange program adviser, Dr. Patricia R. Komuniecki. Details are available on academic issues, living accommodations, recreational opportunities and life in England on the departmental Web site: [www.biosciences.utoledo.edu](http://www.biosciences.utoledo.edu).

### Medical Technology Program/Clinical Laboratory Sciences

This program prepares students for certification as medical technologists. Students are expected to complete three or four years of baccalaureate college work, and then 12 months of training in a hospital school of medical technology. A certification examination is taken at the successful completion of a hospital training program. The requirements for certification are established by the Board of Registry of the American Society of Clinical Pathologists and the American Society of Medical Technologists.

Courses required for admission to accredited hospital schools of medical technology include:

BIOL 2150, 2160, 2170, 2180, 3010, 3030, 3070, 3510, 4030, 4040, 4050  
CHEM 1230, 1240, 1280, 1290, 2410, 2420, 2460  
MATH 1750, 1760  
PHYS 2070, 2080

The medical technology adviser will assist students in planning the sequence in which these courses are taken during the student's three or four years at the university. A 3.0 cumulative GPA or better is necessary for serious consideration for acceptance by the hospital schools of medical technology. Furthermore, the number of available internships is extremely limited. Therefore, interested applicants should consult with the medical technology adviser, Dr. Charles Creutz, before selecting this professional career option.

Information concerning terms of instruction, admission dates, stipends, tuition, housing arrangements, uniforms and contractual obligations for the affiliate hospital may be obtained by contacting the educational coordinator, Karlyn Lange, M.T. (ASCP), educational coordinator, St. Vincent's Hospital.

### Department of Chemistry

*A. Alan Pinkerton, chair*

*Jon R. Kirchhoff, associate chair*

*Mark R. Mason, director of graduate studies*

*Julian A. Davies, international exchange adviser*

*John Chrysochoos, undergraduate advising coordinator*

*Eric W. Findsen, undergraduate adviser*

*Dean M. Giolando, undergraduate adviser*

*Andrew D. Jorgensen, undergraduate adviser*

*Ronald E. Viola, undergraduate Honors adviser*

### Degrees Offered

The department of chemistry offers a degree program for a bachelor of arts or a bachelor of science.

### Advanced Placement

Students with a score of 3 on the Advanced Placement Exam will receive credit for CHEM 1090; students with a score of 4 will receive credit for CHEM 1230 and 1280; students with a score of 5 will receive credit for 1230, 1280, 1240 and 1290.

### Requirements for the Undergraduate Major

For the bachelor of arts degree in chemistry, the following courses must be included: CHEM 1230, 1240, 1280, 1290, 2410, 2420, 2460, 2470, 3310, 3360, 3710, 3720; 3510 or 3610; 3860. The following related courses are required: MATH 1850, 1860 and PHYS 2070, 2080.

For the bachelor of science degree in chemistry, the following courses must be included: CHEM 1230, 1240, 1280, 1290, 2410, 2420, 2480, 2490, 3310, 3360, 3510, 3610, 3730, 3740, 3860, 3870, 4300, 4880. Optional advanced chemistry courses include CHEM 3520, 4620 and 4980; CHEM 4910 also can be taken as an advanced chemistry course with a minimum of 4 credit hours. The following related courses are required: MATH 1850, 1860 and 2850 and PHYS 2130 and 2140. A cumulative GPA of 2.5 in chemistry is required for graduation with this degree.

The bachelor of science degree program meets the minimum standard of the American Chemical Society as specified by its Committee on Professional Training, so that the degree recipients are certified by the American Chemical Society and are eligible for full membership in the society.

The department of chemistry strongly advises students who wish to enroll in 3000 or 4000 level courses present minimum grades of C in prerequisite courses. Students pursuing a chemistry major may not elect the PS/NC option in major or related courses, or prerequisites for these courses, except as noted in specific course descriptions.

### Experience in Research

The department offers experience in research under faculty guidance at all levels, in CHEM 2910, 3910 and 4910. Students are encouraged to talk with faculty members about research participation and to consult with more than one faculty member about appropriate projects. A student who wishes to participate in research should obtain the consent of a faculty member who agrees to guide this work and the approval of a departmental undergraduate adviser, before the first day of the first semester that he/she enrolls for CHEM 2910, 3910 or 4910. Students



may enroll in the different courses, CHEM 2910, 3910 and 4910, with different faculty members.

## Minor in Chemistry

The minor in chemistry is designed to complement the objectives of students in a variety of majors. A minimum of 22 hours of chemistry courses and a GPA of 2.0 or higher in those courses are required for the minor in chemistry, which may be taken with emphasis in certain subdisciplines. No courses in the minor may be taken P/NC except CHEM 4920. The following courses must be included: CHEM 1230, 1240, 1280, 1290, 2410, 2420, 2460 and 2470 (or 2480 and 2490). For the minor in chemistry without subdiscipline additional courses must be selected from: CHEM 3310, 3360, 3510, 3520, 3610, 3710, 3720, 3730, 3740, 3860, 3870, 4300, 4620, 4880 and 4920. For the minor in chemistry with emphasis on biological chemistry, additional courses must be selected from: CHEM 3310, 3510, 3520, 3710, 3720 and 4880. For the minor in chemistry with emphasis in physical chemistry, additional courses must be selected from: CHEM 3730, 3740, 3860, 3870, 4880 and 4920. MBC 3550 and 3560 may be substituted for CHEM 3510 and 3520.

## Honors in Chemistry

Qualified students may be invited to work for the citation "Honors in Chemistry."

- A. Admission:** The Honors program is open to all chemistry majors studying toward the B.S. degree and to other students with the consent of the Departmental Honors adviser and the chair of the department. The program may be undertaken concurrently with University Honors. Admission to the Departmental Honors program is based on academic standing, recommendations by instructors and an interview with the Departmental Honors adviser. A minimum overall GPA of 3.3 and a GPA of 3.5 in chemistry course work are typically required for admission and for retention in the program. Any student may petition the Departmental Honors adviser for admission to the program. A student should normally begin the program no later than the end of the sophomore year.
- B. Requirements:** Each Honors student must satisfactorily complete CHEM 4910, independent research, with a written thesis and an oral research report upon completion of the research project. A minimum of 6 hours of chemistry courses at the 3000 and 4000 level in addition to CHEM 4910 must be taken for Honors. These courses must be in at least two different areas of chemistry, to be selected from among analytical chemistry, biochemistry, inorganic chemistry, organic chemistry and physical chemistry. The instructor in each of these courses will plan activities above the normal requirements of the course for the Honors student, in line with the aims of the Honors program, to encourage independent scholarship. Outside reading and writing may be important components of each Honors course assignment. Students enrolled in the departmental Honors program also are encouraged to participate in the department's colloquium program. For good standing, a minimum overall GPA of 3.3 and a GPA of 3.5 in chemistry course work must be maintained throughout the program.

## Junior Year Studies in England for Chemistry Majors

The University of Toledo has an exchange program agreement with the University of Salford, England. Selected Toledo students spend their junior years at Salford, and students in the Salford three-year chemistry

Honors program spend their second year at Toledo. Eligibility is based on scholastic standing. Participants in the program pay their instructional and general fees to their home institutions. Information on the program may be obtained from the departmental international exchange adviser.

## Department of Communication

*Richard J. Knecht, chair*

*James Benjamin, general communication adviser*

*Joseph Clark, public relations adviser*

*Paul Fritz, general communication adviser*

*Paulette Kilmer, journalism adviser*

*Jacqueline Layng, broadcasting adviser*

*Paul A. Many, journalism adviser*

*Norbert H. Mills, associate chair and adviser for communication minor*

*Brian Patrick, general communication adviser*

*Donald Reiber, broadcasting adviser*

*David E. Tucker, broadcasting adviser*

*Raymond Jackson, adviser*

## Degrees Offered

The department of communication offers a degree program for a bachelor of arts in communication. Students may select classes from areas that include, but are not limited to, human communication, journalism, broadcasting and public relations.

## Requirements for the General Communication Major

- All general communication majors complete the following communication classes: COMM 2000, 2400, 2600, 3870, 4910.
- All general communication majors must take a minimum of 8 hours and a maximum of 16 hours from the following Applied Communication classes: COMM 2100, 2120, 2150, 2210, 2220, 2630, 2810, 2990, 3150, 3270, 3280, 3610, 3720, 3810, 3830, 3880, 4610 and 4630. Independent Study hours (COMM 2990) may not count toward the minimum requirement of 8 hours.
- All general communication majors must take a minimum of 8 hours and a maximum of 12 hours from the following Conceptual Communication classes: COMM 3180, 3820, 3840, 3850, 3860, 4090, 4210, 4220, 4250, 4330, 4640, 4810, 4830, 4900 and 4990. Independent Study hours (COMM 4990) may not count toward the minimum requirement of 8 hours.
- A minimum of 35 semester hours is required in the major. A maximum of 43 semester hours (pending final approval) is permitted by the college.
- All general communication majors must take a minimum of 18 semester hours in related areas. These classes are to be chosen in consultation with a departmental adviser.

## Requirements for the General Communication Minor

1. All communication minors are required to take COMM 2000 – Mass Communication and Society and COMM 2400 – Information Analysis and Synthesis.
2. In addition, students are required to take a total of 15 hours, 6 to 9 semester hours from both the applied and conceptual categories. Applied communication includes: COMM 2100, 2120, 2150, 2210, 2220, 2630, 2810, 2990, 3150, 3270, 3280, 3610, 3720, 3810, 3830, 3880, 4610 and 4630. Independent study hours (COMM 2990) may not count toward the minimum requirement of 6 hours. Conceptual communication includes: COMM 3180, 3820, 3840, 3850, 3860, 4090, 4210, 4220, 4250, 4330, 4640, 4810, 4830, 4900 and 4990. Independent study hours (COMM 4990) may not count toward the minimum requirement of 6 hours.

## Honors in Communication

Qualified students may be invited to work for the citation “Honors in Communication.”

- A. **Admission:** Communication majors who are enrolled in University Honors may enroll for department of communication Honors.
- B. **Requirements:** In addition to meeting the requirements for the undergraduate major, at least 11 of those hours must be designated communication Honors. Five hours of Honors Thesis credit will satisfy the research requirement. Minimum GPA requirements are the same as those for College Honors.

## Disability Studies Minor

(THIS PROGRAM IS AN INTERDISCIPLINARY MINOR.)

*Patricia Murphy, director*

The minor will consist of a minimum of 21 hours of course work. No more than 6 hours of courses taken for minor credit may be applied to the total Arts and Sciences distributive requirements. A student must maintain a minimum GPA of 2.0 in the minor course work. DST 2020 Disability Studies in the United States is recommended, but does not apply to the minor.

### Required Disability Studies Courses

DST	3020	Definitions, Models, and Paradigms of Disability
DST	3030	Issues in Disability Studies
DST	4890	Disability Studies Research and Methodologies
DST	4940	Internship

### Recommended Electives

Select a minimum of 9 hours with the adviser’s advance approval.

#### Humanities

ENGL	3050	Persuasive Writing
HIST	4490	Witchcraft and Magic in Medieval and Early Modern Europe
HIST	4490	Theory of Public History
HIST	4980	The Holocaust
PHIL	3310	Science and Society
PHIL	3370	Medical Ethics
WGST	4170	Gender and Mental Illness
WGST	4980	Feminism and Disability

#### Social Sciences

ANTH	4760	Medical Anthropology
ECON	4750	Medical Economics

GEPL	3750	Transportation Geography
GEPL	3810	Political Geography
GEPL	4530	Principles of Urban Planning
GEPL	4550	Community Economic Planning
GEPL	4600	Urban Design
PSC	3800	Sexual Politics
PSC	4330	Health Care Policy
PSC	4350	Health Care Delivery Systems
PSC	4410	Management of Nonprofit Organizations
PSC	4530	Civil Rights
PSY	3200	Personality and Individual Differences
PSY	3210	Clinical Psychology
PSY	3220	Psychopathology of Childhood
SOC	4180	Medical Sociology

## Department of Earth, Ecological and Environmental Sciences

*Michael W. Phillips, chair and undergraduate adviser, geology*

*Elliot J. Tramer, associate chair and director, environmental studies; undergraduate adviser, environmental sciences*

*V. Max Brown, undergraduate adviser, environmental sciences*

*Alison Spongberg, undergraduate adviser, environmental studies*

## Degrees Offered

The department of earth, ecological and environmental sciences offers degree programs for a bachelor of arts in environmental studies, a bachelor of science in environmental science and either a bachelor of arts or a bachelor of science in geology.

## Requirements for the Bachelor of Arts Degree in Environmental Studies and the Bachelor of Science degree in Environmental Sciences

All students in both the B.A. and B.S. programs must complete the following courses: EEES 1020, 2010, 2100, 2150, 2160, 2400, 2500, 3050 and 3900 as well as MATH 2600, PSC 4340, ECON 4240, GEPL 3900 and PHIL 3180. Prerequisites will be waived for ENSC and ENST majors enrolling in the above courses.

All environmental studies (ENST) and environmental sciences (ENSC) students also will select an area of concentration in an academic department within the College of Arts and Sciences. Students must complete at least 21-22 hours of course work in their area of concentration, depending upon the department chosen. Some departments may provide a list of courses appropriate for ENSC and ENST majors. Students also are required to complete an environment-related internship in an agency, corporation, university laboratory or other approved location. With the exception of EEES 4940, students may not take any courses required in the major as P/NC.

In addition to the above requirements, students in the B.S. program must also complete: EEES 3060; CHEM 1230, 1240, 1280 and 1290; MATH 1750 and 1760 or 1850 and 1860. Students in the B.A. program must also take CHEM 1090, 1100 or 1230; and MATH 1180. Students choosing a concentration in economics must complete either MATH 1320 and 1330, or MATH 1340, or MATH 1750 and 1760 instead of taking MATH 1180.

## Junior Year Studies in England for Environmental Studies/Sciences Majors

The College of Arts and Sciences of The University of Toledo participates in an exchange program with the University of Hertfordshire, England. Selected Toledo students have the opportunity to spend their junior year at Hertfordshire. Participants in the program will pay their instructional and general fees to The University of Toledo. Eligibility to participate in the program is based on scholastic criteria. Information on the program may be obtained from the departmental exchange program adviser. Details are available on academic issues, living accommodations, recreational opportunities and life in England.

## Requirements for the Bachelor of Science Degree in Geology

The bachelor of science degree in geology requires a minimum of 35 hours in the major, including: EEES 2100, 2210, 2220, 2500, 3200, 3320, 4000, 4010, 4610, 4650 and 4920. In addition, the following related courses are required: MATH 1850 and 1860 or MATH 1750 and 1760; CHEM 1230, 1240 and 1280 and PHYS 2070 and 2080 or PHYS 2130 and 2140. Students must achieve at least a GPA of 2.5 in the major to graduate. Additional geology courses may be taken, but only a maximum of 50 hours may be applied toward the degree requirement. Students may **not** take any required course in the major or related areas as P/NC.

## Requirements for the Bachelor of Arts Degree in Geology

The bachelor of arts degree in geology requires a minimum of 34 hours in the major. All students must complete: EEES 1010 or 2100, and 2500, 2210, 2220, 3320, 4650 and either 4610 or 3200 as well as an additional four geology electives at the 3000 or 4000 level. In addition, students must complete MATH 1340 or MATH 1320 and 1330 or an approved higher level math course, CHEM 1230, 1280, and 7-9 hours of approved electives in astronomy, biology (including EEES ecology courses), chemistry, engineering, geography and planning and/or physics. This program is designed to give students greater flexibility in designing a program of study tailored to their specialized interests in geology and the related sciences. Students must achieve a GPA of at least in the major to graduate. Additional geology courses may be taken, but only a maximum of 40 hours may be applied toward the degree requirements. Students may **not** take any required course in the major or related areas as P/NC.

## Minor in Geology

Students electing to minor in geology must complete a minimum of 22 hours of course work: 14 hours of basic required courses (EEES 2210, 2220, 2500, 3200 and 3320), and 8 additional hours chosen from any other formal 3000 or 4000 level geology courses. A program of study must be approved in advance by the departmental undergraduate adviser, and a minimum GPA of 2.0 must be achieved for the course work completed in the minor.

## Requirements for the Interdepartmental Bachelor of Science Degree in Geophysics

The requirements for this degree, as approved by the three participating departments, are: MATH 1850, 1860, 2850, 3860, 1890 (18 credits); PHYS 2130, 2140, 3180, 4210, 4230 (18 credits); EEES 2100, 1020, 2500, 2210, 2220, 3220, 4610 and 4620 (22 credits). Students must also

take an additional 3-4 hours of adviser-approved electives at the 3000 or 4000 level from the mathematics, physics, or earth, ecological and environmental sciences departments. In addition, students also must complete CHEM 1230 and 1280.

## Departmental Honors

Qualified juniors and seniors working on degree programs within the department of earth, ecological and environmental sciences (EEES) may be invited to work for one of the following citations, consistent with their degree program: "Honors in Environmental Sciences," "Honors in Environmental Studies," or "Honors in Geology."

- A. **Admission:** The Departmental Honors program is open to EEES majors and may be taken concurrently with College Honors. Admission to the Departmental Honors program is based on academic achievement. Normally, students invited to participate will have achieved a 3.3 or better overall GPA by the end of the sophomore year.
- B. **Requirements:** A student must satisfactorily complete from 3 to 6 credits of EEES 4910 Directed Research and graduate with a 3.3 overall GPA in order to receive the Honors citation. Candidates must prepare a written thesis based on their research and present an oral report at an open forum. Candidates also will provide bound copies of the approved thesis to the research adviser and the department. This program provides an opportunity for the exceptional student to work closely with a faculty adviser on an independent research topic. This research experience often leads to publication and is an excellent preparation for graduate studies.

## Department of Economics

*Michael Dowd, chair*

*John Murray, undergraduate adviser and Honors adviser*

## Degrees Offered

The department of economics offers a degree program for a bachelor of arts.

## Advanced Placement

The department will award credit after reviewing the advanced placement tests. Students with a score of 3, 4 or 5 will receive credit for ECON 1150 if the macroeconomics test was taken and ECON 1200 if the microeconomics test was taken.

## Requirements for the Undergraduate Major

The economics major consists of a balanced set of core courses in economic theory and statistics, plus electives of the student's choice. Both macroeconomics (the study of a national economy) and microeconomics (the study of individual markets) comprise a body of consistent theory. The specific contents of our macroeconomic and microeconomic courses are prescribed by professional standards and are consistent with such courses offered at other colleges and universities across this country. Field courses, such as labor or monetary economics, illustrate applications of theories taught in our macroeconomic and microeconomic courses. The student then learns statistical techniques to test these applications. The ability to analyze economic data in consistent, precise and understandable terms gives the student an ideal background for many kinds of business, government, legal and academic careers.

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Beyond the required courses, the choice of courses is intentionally wide and numerous programs are possible. Each program is tailored to individual student needs and career objectives.

The requirement of 30 hours in economics must include, from among the following, 15 hours of core courses and 15 hours of electives:

**1. Economics Core courses required for an economics major:**

- ECON 1150 Principles of Macroeconomics
- ECON 1200 Principles of Microeconomics
- ECON 2640 Business and Economic Statistics (or equivalent)
- ECON 3150 Intermediate Macroeconomic Theory
- ECON 3200 Intermediate Microeconomic Theory

**2. Economics electives:**

15 hours, chosen in consultation with the economics adviser.

**3. Related courses required for an economics major:**

The college requirement of 18 hours in related courses should be met with courses chosen in consultation with the department's undergraduate adviser. The following courses are required:

- Either:** MATH 1850 Calculus I  
**or**  
MATH 1260 Modern Business Math I **and**  
MATH 1270 Modern Business Math II  
MATH 2630 Introduction to Business Statistics

Students are encouraged to meet the mathematics and statistics requirements at an early stage of their course work.

In the major area, 21 hours are to be taken under the regular grading system; the PS/NC option is available for the remaining 9 hours and for all related courses.

## Undergraduate Research

The department of economics offers individual students the opportunity to gain research experience under faculty guidance. Research topics can be theoretical analysis, empirical analysis or both. Further options regarding the level of research are available as the department offers both junior and senior level courses: ECON 3900, 3910, 4910 and 4920. A student interested in conducting research needs to register for one of those four courses with the consent of a faculty member who agrees to direct the student's research. Students may enroll in these courses more than once. If they do, however, they are encouraged to work with different faculty members to obtain more diverse research experiences.

## Requirements for a Minor in Economics

Students electing to minor in economics must complete a minimum of 21 hours of course work. The 12 hours of required course work listed below for a minor in economics provide the theoretical and quantitative skills essential for a fundamental understanding of the discipline of economics and a rigorous background for an in-depth appreciation of upper division courses. Each program of study for a minor must receive the prior approval of the departmental adviser. A minimum GPA of 2.0 must be achieved in courses within the minor.

**Courses required for a minor in economics:**

- ECON 1150 Principles of Macroeconomics
  - ECON 1200 Principles of Microeconomics
  - ECON 3150 Intermediate Macroeconomic Theory
- or**  
another macro course chosen with the consent of the undergraduate adviser.

- ECON 3200 Intermediate Microeconomic Theory
- or**  
another micro course chosen with the consent of the undergraduate adviser.

**Upper division economics courses:**

In consultation with the departmental adviser, the student must select the additional nine hours from course work in economics at the 3000/4000 level. No more than three hours of ECON 4910 or 4920 may be included in the nine hours of additional course work.

## Honors in Economics

Qualified juniors and seniors are invited to work for the citation "Honors in Economics."

**A. Admission.** The Honors program is open to all undergraduate economics majors whether or not they are enrolled in College Honors. Students who have shown superior ability in their freshman and sophomore years and who show promise of continuing good performance in the major should apply to the department for enrollment in the Departmental Honors program. Ordinarily, the student must have a cumulative GPA of 3.0 or better.

**B. Requirements.** To be awarded Departmental Honors in economics, the student must complete a senior thesis and must take 9 of the 30 hour major requirements in the Honors and Honors Recognition courses currently offered by the department. Every regularly scheduled 4000 level course can be given Honors Recognition by assigning readings and research in addition to the normal requirements of the course. To remain in the program, the student ordinarily must maintain a 3.3 GPA in the major.

## Department of English Language and Literature

*Samir Abu-Absi, chair*

*John Boening, associate chair and director of academic programs*

*Catherine H. Chengges, administrative coordinator*

*C. Jane Bradley, director of undergraduate studies*

*Rane Arroyo, director of creative writing*

*Barbara Schneider, director of composition*

*Sara Lundquist, director of graduate studies*

## Degrees Offered

The department of English language and literature offers a degree program for a bachelor of arts.

## Advanced Placement

Students with a score of 3 will receive credit for Composition I; those with a score of 4 will receive credit for Composition I and one course in the ENGL 2700 series; those with a score of 5 will receive credit for Composition I and II and ENGL 2700 level.

## Requirements for the Undergraduate Major

The English major offers four concentrations. Students must select one of the concentrations detailed below. All concentrations require a minimum of 34 credit hours.

1. **The General Literature Concentration** must include the following: ENGL 3150; ENGL 3790; ENGL 3810; one course chosen from ENGL 4800-4860 (single author); three period courses: one chosen from ENGL 4400-4460 (British Literature before 1800), one chosen from ENGL 4500-4540 (British Literature after 1800), and one chosen from ENGL 4600-4680 (American Literature); and 12 elective hours in English. The student's program should include at least one course in drama or the novel. The department further recommends that during the sophomore and junior years the student take courses from the following: ENGL 3710, 3720, 3760, 3780.
2. **The American Literature Concentration** must include the following: ENGL 3150; ENGL 3790; one course in British literature before 1800; one course in British literature after 1800; a minimum of 18 elective hours in 4000 level American literature courses, one of which must be an American single-author course (ENGL 4860); and three elective hours in English.
3. **The Writing Concentration** must include the following: ENGL 3150; ENGL 3790; ENGL 3810; one course chosen from ENGL 4800-4860 (single author); three 4000 level literature courses: one in British literature before 1800, one in British literature after 1800, and one in American literature; and 12 hours in departmental writing courses, at least half of which must be at the 3000 or 4000 level (e.g., 2010, 2950, 2960, 3010, 3050, 3800, 4030, 4070, 4080, 4090, 4890, 4950).
4. **The Creative Writing Concentration** must include: English 3010; three writing workshops (4030, 4070 or 4080); 12 credit hours of literature or linguistic courses of which 6 credit hours must be at the 4000 level. Final requirements include the capstone course (4890) and Independent Study (4990) towards the completion of a portfolio.

#### Related area courses for the above concentrations:

The 18 hours in related fields — at least half of which must be at the 3000 and 4000 levels — are often chosen from the other humanities, the social sciences and interdisciplinary programs. The related area requirement may be satisfied by taking a minor. Students should — in consultation with their adviser — work out a pattern of related-area courses relevant to their career and intellectual interests.

**Independent Study:** Before the end of open registration, English majors wishing to enroll for credit in an independent study course must present to the supervising instructor a detailed written proposal, which will include the number of credit hours for the course, the number of credit hours of independent study already taken in the major during the student's college career and the name of the student's major. This proposal must be approved in writing by both the instructor and the appropriate undergraduate English adviser.

**Limitations:** No more than five courses in the major and related fields may be PS/NC. No more than 6 hours in the major may be in independent study courses.

## Honors in English

Qualified juniors and seniors may work for the designation "Honors in English."

- A. **Admission:** After completing at least 15 hours of 3000-4000 level English courses, a student whose GPA in those courses is 3.6 or higher may submit a proposal for an Honors Thesis to the Honors Committee. Upon acceptance, the student will proceed to fulfill the honors requirements.

- B. **Requirements:** In addition to the hours required in the regular major, Departmental Honors will include:

1. Honors Thesis. This will require four hours of honors thesis (ENGL 4960).
2. Honors Seminar (ENGL 4900) is taken concurrently with Honors Thesis (ENGL 4960).
3. Credit hours for the Honors Thesis (ENGL 4960) or Honors Seminar (ENGL 4900) do not apply to the English major or to the related hours of the major.

The designation "Honors" on the diploma will be given to students who receive a grade of A on the Honors Thesis, maintain a 3.6 GPA in English and attend the Honors Seminar.

## Minor in English

Two concentrations are possible: literature and writing. A minimum of 22 hours is required for the minor in English with a concentration in literature or writing.

**Requirements for the minor in English (literature concentration):** ENGL 3790 (Critical Approaches to Literature); ENGL 3810 (Shakespeare I); one course chosen from ENGL 4400-4540 (British Period courses); and one course chosen from ENGL 4600-4680 (American Period courses). The remaining 9 hours will be selected from departmental offerings at the 3000 and 4000 level in consultation with the department of English adviser.

**Requirements for the minor in English (writing concentration):** ENGL 3790 (Critical Approaches to Literature); two courses in literature, at least one at the 4000 level (6 hours). Three courses in writing (one of which must be at the 3000-4000 level) selected from: ENGL 2010, 2950, 2960, 3010, 3050, 3800, 4030, 4070, 4080, 4090, 4950 (9 hours). The remaining 3 hours will be selected from departmental offerings in literature or writing in consultation with the adviser.

**Requirements for the minor in history and criticism of drama:** This is an interdisciplinary minor that is offered for students interested in both drama and English. See the department of theatre and film for more information.

## European Studies

(THIS PROGRAM IS AN INTERDISCIPLINARY MAJOR.)

*Mark Denham, adviser*

## Degrees Offered

The European Studies program offers a bachelor of arts degree.

## Degree Requirements

European Studies was developed to offer students a comprehensive approach to Western, Central and Eastern European affairs for a liberal education background and career preparation. A multidisciplinary perspective is offered, with most studies focused on political science, history, sociology and business. Although the study of some countries or areas may necessitate a working knowledge of one or more foreign languages, all programs are tailored to the individual student's interests and needs.

The following outline constitutes a guideline for the student who, in consultation with the adviser for European Studies, works out a specific program of 45 required hours.

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Approximately 21 hours from the social sciences, as approved by the adviser. Examples of courses a student might take include:

GEPL 3030  
ECON 3410, 3500  
PSC 2620, 4610, 4620

Approximately 24 hours from the humanities, as approved by the adviser. Examples of courses a student might take include:

HIST 2180, 2650, 4100, 4510  
CLC 2050, 2060  
PHIL 3250, 4240, 4260

European language courses (Students also must satisfy the College of Arts and Sciences foreign language requirement.)

## Department of Foreign Languages

*Antonio Varela, chair*

*Ruth A. Hottell, undergraduate adviser, French*

*Debra L. Stoudt, undergraduate adviser, German*

*Kathleen Thompson-Casado, undergraduate adviser, Spanish*

*Juan Martin, undergraduate adviser, Spanish*

*Oscar Lepeley, undergraduate adviser, Spanish minor*

## Degrees Offered

The department of foreign languages offers a bachelor of arts degree.

In addition to courses in classical civilization taught in English, the department of foreign languages offers instruction in the following foreign languages: Arabic, Chinese, French, German, Japanese, Latin and Spanish. A major can be earned in the areas of French, German and Spanish; Departmental Honors can be pursued in these same areas. A minor can be earned in any of the major fields as well as in Classics and Japanese. The requirements for these programs are set forth below.

## Advanced Placement

Students in French and German with a score of 3 on the language test will receive credit for 3010; those with a score of 4 will receive credit for 3010 and 3020; those with a score of 5 will receive credit for 3010, 3020 and an elective at the 3000/4000 level.

Students in Spanish with a score of 3 on the language test will receive credit for 3010; those with a score of 4 will receive credit for 3000 and 3010; those with a score of 5 will receive credit for 3000, 3010 and 3020.

Students in Latin with a score of 3 will receive credit for 2140; those with a score of 4 will receive credit for 2140 and 2150; those with a score of 5 will receive credit for 2140, 2150 and 3050 (or equivalent).

Students in French, German and Spanish with a score of 3, 4 or 5 on the literature test will be awarded credit in consultation with the undergraduate adviser in each language section.

## Majors in Foreign Languages

French, German, and Spanish offer two tracks for majors, the general and the applied language or business track; requirements for the applied language or business track are described as part of the B.A./M.B.A. program.

## Requirements for the General Major in French, German and Spanish

A minimum of 34 hours is required for the undergraduate major in any of these languages beginning in all cases at the 3000 language level. Required courses for the general French major are: FREN 3010, 3020\*, 3210, 3220, 3410, 3420, 4010, 4020\*, and additional 3000/4000 level courses with adviser's approval. Required courses for German are: GERM 3010, 3020\*, 3200, 3410 or 3420, 4010, 4020\*, and additional 3000/4000 level courses with adviser's approval. Required courses for Spanish are: SPAN 3000, 3010, 3020\*, 3210, 3220 (or 3270, 3280), 3410 (or 3420), 4010 (or 4110), and additional 3000/4000 level courses with adviser's approval.

Students interested in becoming legal assistants may take a combined program in Spanish and paralegal studies (offered in the College of Health and Human Services.) The Spanish portion of this program consists of the following courses: SPAN 3000, 3010, 3020\*, 3170, 3420, 4010, 4060, and additional 3000/4000 level courses with adviser's approval. \*Writing intensive courses in French, German and Spanish.

### Related area courses for the above concentrations:

The 18 hours in related fields often are chosen from other humanities, including a second foreign language, from the social sciences and from interdisciplinary programs. The related area requirement also may be satisfied by completing a minor or major in another discipline. Students should, in consultation with their adviser, develop a pattern of related area courses relevant to their career and intellectual interests.

## Joint B.A. in Foreign Languages/M.B.A. in International Business Program

The department of foreign languages and the department of international business, entrepreneurship and strategy offer a program for undergraduates majoring in a foreign language who wish to pursue graduate work in business and prepare for a long-term career in international business. The program requires a minimum of five years of study.

Students completing this program earn a B.A. in a foreign language and complete a minor in business; the program of study culminates in an M.B.A. with a concentration in international business.

Students should have a strong high school background in mathematics and the foreign language in which they wish to major. It is expected that students will study abroad at least once during the program. Careful long-range planning in consultation with advisers from both colleges will contribute to timely completion of degree requirements.

The program involves completion of a special track in French, German or Spanish for students interested in business. The track differs from the traditional B.A. in that: a) it requires fewer literature courses, b) it requires more culture courses, and c) it includes a required applied course work (professional preparation) component.

Students in the B.A./M.B.A. program complete the approved minor in business (maximum of 36 hours). All 18 hours listed as prerequisites for the business minor apply toward the 124 credit hours for the B.A. degree. The required foundation course and the additional requirements for the minor in business (18 hours) are recognized in lieu of related courses for the B.A. Students pursuing the M.B.A. portion will need to

take one additional business course as identified in this plan, either as an undergraduate or as a graduate student, to satisfy M.B.A. prerequisites.

## B.A. in a Foreign Language

Students fulfill all requirements for the B.A. in the College of Arts and Sciences, earning a minimum of 124 credit hours. Students complete the Applied French, Applied German or Business Spanish major, which consists of 33-34 hours of course work in the language; these hours include business courses in the language as well as composition, conversation, literature, and culture course requirements.

### Program in French: Applied French Major

#### Language courses 13 hours

FREN 3010	Conversation and Composition I .....	3
FREN 3020	Conversation and Composition II (WAC) .....	3
FREN 4010	Syntax and Stylistics I .....	3
FREN 4020	Syntax and Stylistics II (WAC) .....	4

#### Literature course 3 hours

FREN 3220	Survey of French Literature II .....	3
	or any other 3000/4000 level literature course	

#### Culture and civilization courses 6 hours

Choose two of the following:

FREN 3410	Survey of French Civilization I .....	3
FREN 3420	Survey of French and Francophone Civilization II .....	3
FREN 4200	Contemp. French and Francophone Civilization .....	3
FREN 4980	Special Topics (as appropriate) .....	3

#### Applied course work (professional preparation) 6 hours

FREN 3170	Business French .....	3
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#### In addition, students choose one of the following courses:

FREN 4070	French Translation .....	3
FREN 4190	Study Abroad .....	3
	Students are encouraged to complete professional preparation courses as part of a study abroad program.	
FREN 4980	Special Topics (as appropriate) .....	3

#### Electives 6 hours

Students choose from French courses numbered 3000 or higher.

#### Total 34 hours

### Program in German: Applied German Major

#### Language courses 13 hours

GERM 3010	Conversation and Composition I .....	3
GERM 3020	Conversation and Composition II (WAC) .....	3
GERM 4010	Advanced Conversation and Composition I .....	3
GERM 4020	Advanced Conversation and Composition II (WAC) .....	4

#### Literature course 3 hours

GERM 3200	Survey of German Literature .....	3
	or any other 3000/4000 level literature course	

#### Culture and civilization courses 6 hours

Choose two of the following:

GERM 3410	Survey of German Civilization I .....	3
GERM 3420	Survey of German Civilization II .....	3
GERM 4200	German Culture and Civilization .....	3
GERM 4980	Special Topics (as appropriate) .....	3

#### Applied course work (professional preparation) 6 hours

GERM 3170	Business German .....	3
GERM 3180	Scientific and Technical German .....	3

#### In addition, students choose one of the following courses:

GERM 4940	Work Experience Abroad .....	3
	Students are encouraged to complete professional preparation courses as part of a study abroad program.	
GERM 4980	Special Topics (as appropriate) .....	3

#### Electives 6 hours

Students choose from German courses numbered 3000 or higher.

#### Total 34 hours

### Program in Spanish: Business Spanish Major

#### Language courses 12-13 hours

SPAN 3000	Spanish Grammar Review .....	3
SPAN 3010	Conversation and Composition I .....	3
SPAN 3020	Conversation and Composition II (WAC) .....	3
SPAN 4000	Advanced Spanish Grammar	

or

SPAN 4010	Syntax and Stylistics .....	3-4
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#### Literature course 3 hours

Choose one:

SPAN 3220	Survey of Spanish Literature II .....	3
SPAN 3280	Survey of Latin American Literature II .....	3

#### Culture and civilization courses 6 hours

SPAN 3410	Spanish Culture and Civilization .....	3
SPAN 3420	Latin American Civilization .....	3

#### Applied course work (professional preparation) 6 hours

SPAN 3170	Business Spanish .....	3
SPAN 4370	Advanced Business Spanish .....	3

#### Electives 6 hours

Students choose from Spanish courses numbered 3000 or higher.

#### Total 33-34 hours

## Honors in Foreign Languages

Qualified students are invited to pursue Honors in a French, German or Spanish major and thereby earn the degree designation of "Departmental Honors" in their specific field upon graduation. Formal application for Departmental Honors should be made near the end of the sophomore year. Acceptance is based on the following: 1) junior or senior standing; 2) a GPA of 3.3 overall and in the major, and 3) approval by the language Honors adviser and the chair of the department of foreign languages.

To graduate with the degree designation of "Departmental Honors," the student must: 1) satisfy the standard requirements listed above for the major; 2) maintain a GPA of 3.3 overall and in the major; 3) satisfactorily complete a minimum of 12 hours of departmental honors course work at the 3000 or 4000 level; and 4) include among the 12 hours the Honors Research course (FREN, GERM or SPAN 4960) that normally leads to the completion of an Honors thesis.

## Minor in Foreign Languages

### Classics

In Classics, a minimum of 21 hours is required for the minor. At least 9 hours must be in Latin above the intermediate level. The remaining hours must include classical civilization courses (excluding CLC 1010 Classical Humanities) or additional course work in Latin.

## French, German, Japanese or Spanish

A minimum of 22 hours is required for the minor in French, German, Japanese or Spanish. In the modern languages, all course work must be in the same language and at the 3000 level or higher. Required courses include the following:

### Applied French Minor

#### Hours

FREN 3010, 3020 .....	6
FREN 4010, 4020 .....	7

Electives chosen from the following: Business French, French Phonetics, French Linguistics, Advanced Conversation or French Translation

### General French Minor

FREN 3010, 3020 .....	6
FREN 4010, 4020 .....	7

### Applied German Minor

GERM 3010, 3020 .....	6
GERM 3410, 3420, 4200 or 4980 (as applicable) .....	3
GERM 3170 or 3180 .....	3
GERM 4010, 4020 .....	7

### General German Minor

GERM 3010, 3020 .....	6
GERM 3200, 3410, 3420 or 4200 .....	3
GERM 4010, 4020 .....	7

### Japanese Minor

JAPN 3010, 3020 .....	6
JAPN 4010, 4020 .....	7

### Spanish Minor

SPAN 3010, 3020 .....	6
SPAN 3210, 3220, 3270 or 3280 .....	3
SPAN 3410 or 3420 .....	3
SPAN 4000 or 4010 .....	3 or 4

### Total required for each

**21 or 22**

Students wishing to receive a minor in foreign languages have the responsibility, in consultation with the adviser in their major, to see that the necessary course work is included in the total number of undergraduate courses taken. Students outside the College of Arts and Sciences should make sure that the minor in foreign languages is an approved program within their college.

Candidates for the minor in foreign languages must have their course work verified and approved by a department of foreign language adviser or that department's chair at the time they make formal application for graduation. A form for this verification can be obtained in the college or department office.

Courses required for either the major or minor may not be taken PS/NC; however, up to 12 hours of PS/NC course work may be included in the related area.

## Minor in Business

For the requirements for the general minor for nonbusiness students, see the College of Business Administration section of this catalog.

## Study Abroad

Credit for foreign language study abroad will be given only for those accredited courses or programs approved in advance. Students should apply to the department of foreign languages for approval at least one month prior to the anticipated date of departure. Credit will be granted only upon presentation of a formal certificate indicating the hours completed and examinations passed.

## Language Laboratory

For the benefit of foreign language students, the department of foreign languages maintains a laboratory. Students in elementary and intermediate language courses are required to make use of multimedia materials regularly to develop and improve listening and speaking skills. In many instances, video and computer materials are available to enhance the learning of vocabulary, grammar and syntax.

## General Studies

(THIS PROGRAM IS AN INTERDISCIPLINARY MAJOR.)

*Donald F. Homier, adviser*

## Degrees Offered

The General Studies program offers a program for a bachelor of arts or a bachelor of science degree.

## Degree Requirements

The General Studies program has been established in recognition of the fact that existing majors may not satisfy the needs of all students desiring a liberal education. General Studies is an interdisciplinary program that allows students to select an area of concentration and related course work not offered in traditional majors. Students who plan to pursue graduate or professional degree programs or enter certain employment areas that require established curricular backgrounds may find it to their advantage to consider existing majors offered within the college rather than the General Studies option. The standard majors have wider acceptance and more readily identify the nature and quality of an individual's academic background. Students should declare this major before they have completed 90 hours. Students seeking admission to this program will be interviewed by an adviser in the college Student Services Office and must have sound reasons for their choice. Once accepted into the program, students must have their programs approved by the General Studies adviser.

Under this program, the University and college general education requirements specified in the Degree Requirements section of this catalog must be fulfilled, and an area of concentration in the natural sciences, social sciences or humanities must be identified for the purpose of determining education requirements. Students must take at least 64 hours of courses at the 2000 level or higher and at least 32 hours of courses at the 3000/4000 level and have earned a minimum of 124 hours to be eligible for graduation. In lieu of a major, students must take at least 16 but not more than 24 hours of course work in a single department and 26-34 hours of cognate or related course work for a total of 50 hours. Courses used for the concentration and related areas must be courses that would count in the major in those departments. (Students who are seeking a General Studies major in the dual degree program for middle childhood licensure within the College of Education may satisfy the General Studies requirements with fewer than 16 hours in one department. The required minimum of 49 hours of courses must be in at



least two areas of concentration to meet Ohio licensure standards and must come only from approved lists of arts and sciences courses available from college advisers). Upon satisfactory completion of all requirements, either the B.A. or the B.S. degree will be awarded, depending on the concentration of courses. The transcript will identify the major as General Studies.

## Department of Geography and Planning

*Samuel A. Aryeetey-Attoh, chair*

*David J. Nemeth, undergraduate adviser and Honors adviser*

### Degrees Offered

The department of geography and planning (GEPL) offers courses of study leading to the bachelor of arts in geography. Honors in geography also is offered.

### Degree Requirements

The undergraduate major of 31 hours in geography and planning consists of the following:

- A. The student must choose one course each in the areas of (1) environmental geography and planning (GEPL 3540, 3550, 3610), (2) human-economic geography (GEPL 2030-4990 **except** 3410, 3540, 3550, 4490, 4500, 4510) (including regional courses), (3) Quantitative Methods and Mapping (GEPL 4520) and (4) Fundamentals of Geography (GEPL 2010).
- B. The remainder of the hours are to be chosen from GEPL 2030-4990 in consultation with the undergraduate adviser so that these courses, along with appropriate related courses (18 hours, which must include an introductory statistics course), will constitute a coherent concentration such as the following:
  1. Economic geography
  2. Environmental geography and planning
  3. Community and urban planning
  4. Geographic information sciences (GIS and remote sensing)
  5. Cultural and behavioral geography
  6. Geographic education.

**Related Area Courses for the Undergraduate Major:** The 18 hours in related fields most often are chosen from the other social sciences, natural sciences, humanities, interdisciplinary programs and sometimes from professional programs. The related area course requirement also may be satisfied by taking a minor. The appropriateness of related courses to student interest areas and career objectiveness must be identified for approval in consultation with the geography and planning undergraduate adviser.

### Minor in Geography and Planning

The minor of 22 hours in geography and planning consists of the following: (a) the student must complete a core curriculum consisting of the following courses: GEPL 2030, 3160, 3410, 3550, 3710 (approved substitutions are possible); (b) one regional course selected from the following: GEPL 3050, 3120, 3220, 3300; and (c) one planning course from the following: GEPL 4530, 4600.

Students may not take P/NC in either the major and its related courses or for courses in the minor.

## Honors in Geography and Planning

The Honors program in geography and planning is open to all qualified undergraduate majors whether or not they are enrolled in College Honors. The following are requirements for entrance into the Honors program in geography and planning:

- A. **Admission:** A student must:
  1. maintain a 3.5 minimum GPA in geography and planning courses;
  2. maintain a 3.3 minimum cumulative GPA;
  3. complete 12 hours in geography and planning; and
  4. qualify as a geography and planning major whether or not they are enrolled in College Honors.
- B. **Requirements:** A student must complete 9 hours in designated Honors courses in geography and planning and a 4-hour senior honors project. During the final year before graduation, the student will meet with the department's undergraduate adviser to select a faculty research adviser, complete and submit to the department's faculty for approval a senior honors project (GEPL 4960).

## Global Studies

(THIS PROGRAM IS AN INTERDISCIPLINARY MAJOR.)

*Mark Denham, adviser*

### Degrees Offered

The Global Studies program offers a bachelor of arts degree.

### Degree Requirements

Global studies is a major that allows students to study a variety of international processes in a comprehensive and multidisciplinary program of study. It is appropriate for students contemplating careers with institutions, businesses and governments concerned with world affairs, area studies and subjects such as development, public policy or North-South relations. The curriculum is planned so that it offers students a background in global affairs in the broadest sense as well as having a concentration in study of one geographic area of the world and one international interest area. Within the general framework of the major, students' programs will be designed in consultation with the adviser to meet their specific needs.

The major requires the completion of 45 hours, including:

- A. Principles of Global Studies (3 hours)  
Seminar in Global Studies (3 hours)
- B. Completion of two modules of 15 hours each. One module must be focused on one area of the world, and one must consider a substantive, global topic. A complete list of modules is available from the adviser. With the approval of the adviser, students can also design modules on other subjects. A sample of modules is listed below.

#### AREA STUDIES

Africa  
Asia  
Europe  
Latin America  
Middle East  
North America  
Pacific Rim

#### GLOBAL STUDIES

Development  
International women's studies  
International environmental studies  
North-South relations  
Ancient global relations  
International multiculturalism  
International cultural studies

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- C. Within these requirements, students must take at least three of the following courses, at least one in geography. These courses may be used for credit toward any module, elective hours, additional hours or core requirements for which they apply (for example, HIST 1070 could be used to fulfill the College of Arts and Sciences history requirement, but it could not be used to count as a course in the major). When necessary, this list may be modified by the adviser to include courses that are regularly offered.
- GEPL 2040 World Regional Geography
  - GEPL 3160 Patterns of World Development
  - HIST 1070 Contemporary World
  - PSC 1710 Current International Problems
  - PSC 2700 Principles of International Relations
  - SOC 4800 Development in Third World Nations
- D. One 3000 level course in a foreign language. (In certain cases, with the approval of the adviser, another course may be substituted for this requirement.)
- E. For purposes of the Arts and Sciences Core, this major may be designated by the student, in consultation with the adviser, as a social science or humanities major.

### Minor in Global Studies

The minor in Global Studies is designed as an adjunct course of study for any major in the university. It is especially appropriate for students who wish to develop through their course work a broader understanding of global process and conditions. It will help all students to be ready for contributing to a interdependent world.

### Minor Requirements

The minor in Global Studies requires completion of 21 semester hours of approved courses, including:

GLST 2000	Principles of Global Studies .....	3
GLST 4900	Senior Seminar in Global Studies .....	3
At least 12 hours in an approved module .....		12
Three hours chosen in consultation with the adviser .....		3

### Department of History

*William Henry Longton, chair*

*Michael Jakobson, undergraduate adviser*

*Theodore Natsoulas, undergraduate adviser*

### Degrees Offered

The department of history offers a program for a bachelor of arts degree.

### Advanced Placement

Students with a score of 3 will receive credit for one course (3 hours) of the appropriate world civilizations sequence (1010-1120); students with a score of 4 or 5 will receive credit for two courses (6 hours) of the appropriate world civilizations sequence.

### Requirements for the Undergraduate Major

The major of 33 hours in history must be distributed as follows:

- A. HIST 2000 (4 hours)
- B. Of the remaining 29 hours, 12-16 hours (4 courses) must be at the 4000 level. At least 9-12 of these 29 hours (3 courses) shall be in

fields of United States history, and at least 9-12 hours (3 courses) shall be in fields of non-United States history.

The requirement of 18 hours in related courses is to be met with courses chosen from at least three of the following areas: economics, political science, English and American literature, foreign language, geography, philosophy, sociology, psychology, art history, music history or theatre history. At least 12 of the hours in related courses must be in courses at the 3000 and 4000 levels.

Students may not take PS/NC for the minimum requirements for the major but may opt for PS/NC in all related courses.

### Requirements for the Undergraduate Minor

The minor of 21 hours in history must be distributed as follows:

- A. HIST 2000 (4 hours)
- B. Of the remaining 17 hours, 9 hours must be at the 4000 level.

### Honors in History

Qualified students are invited to work for the degree citation "Honors in History."

**A. Admission:** History majors who demonstrate unusual promise in the study of history are invited by the department to enroll in the Honors program. Departmental Honors may be taken concurrently with College Honors. Admission to Departmental Honors is based on the following:

1. Sophomore standing
2. Overall GPA of 3.0
3. A 3.3 GPA in all history courses (minimum of 10 hours)
4. Recommendations from two professors
5. An interview with the adviser

**B. Requirements:** To gain Departmental Honors in history, each student will satisfactorily complete the following:

1. Honors Recognition in two history courses. (Honors Recognition courses are regularly scheduled 3000-4000 level courses in which special recognition is achieved by reading and research in addition to the normal requirements of the course.)
2. Three hours of independent research under Junior Honors Research (HIST 3870).
3. Six hours of thesis under Senior Honors Research (HIST 4870, 4880) leading to the completion of a senior thesis.
4. Oral examination covering the area of the senior thesis.

### Humanities

(THIS PROGRAM IS AN INTERDISCIPLINARY MAJOR.)

*Roger D. Ray, adviser and director of the Humanities Institute*

### Degrees Offered

The humanities program offers a bachelor of arts degree.

## Degree Requirements

This program is a major that totals 60 hours. It is designed for the student who wishes to gain a broad knowledge of the humanities. The student elects, with faculty advice, a variety of courses from such disciplines as literature, history, philosophy, art, music and theater. A representative distribution from among these disciplines must be achieved. The courses chosen must be culturally enriching and broad in scope.

The core of the humanities major will total 30 hours. In addition to the core, the student chooses either to concentrate in an interrelated area (such as medieval studies, Renaissance studies, contemporary humanistic studies, or comparative ancient and modern studies) or to continue an elective spread of courses among the humanities disciplines. Either track consists of 22 additional upper-division hours. The humanities program culminates in a senior seminar, HUM 4950 and 4960, in which the student will develop a creative/research project.

## Latin American Studies

(THIS PROGRAM IS AN INTERDISCIPLINARY MAJOR.)

*Donald Stierman, adviser*

## Degrees Offered

The Latin American Studies program offers a bachelor of arts degree.

## Degree Requirements

The purpose of the Latin American Studies major is to provide the student with in-depth knowledge of the region through the multidisciplinary studies approach. This program examines the development of regional and cultural diversity in Latin America and strives to better understand the position of Latin America relative to the world community. The program examines the place of Latin American-related populations in the United States.

Students must complete the following requirements.

### Required courses:

- 9 hours of Spanish conversation and composition (SPAN 3000, 3010 and 3020) to be completed by all students in the program.
- 21 hours chosen from a list of courses for the major, allotted from at least five departments, as approved by the adviser.

### Related courses:

- 18 hours chosen from a list of related courses, as approved by the adviser.

## Minor in Latin American Studies

Students electing to pursue a minor in Latin American Studies must complete:

- Spanish: SPAN 2150, plus
- 21 hours chosen, and approved by the adviser, from the list of courses for the minor, distributed among at least five departments.

Lists of courses for the major, related to the major, and for the minor, can be accessed from the following Web site:

<http://www.geology.utoledo.edu/research/latin-am/>

There are many activities conducted by the Center for International Studies and Programs and the Institute for Latin American Studies to enhance awareness of Hispanic culture and customs, including seminars,

workshops and cultural events. Study abroad programs and exchanges exist with several countries of the region, and opportunities for related activities are many.

## Law and Social Thought (LST)

(THIS PROGRAM IS AN INTERDISCIPLINARY MAJOR.)

*Benjamin S. Pryor, director and adviser*

## Degrees Offered

The Law and Social Thought (LST) program offers a bachelor of arts degree in the interdisciplinary study of law in society.

LST provides students with tools for the appraisal of U.S. and other legal systems and the policies, practices and philosophies that underlie them. LST encourages reflection on the values that shape citizenship in contemporary democracy. It also focuses on issues of law in relation to morality, politics, language and the arts of critical and creative thinking.

## Degree Requirements:

- **Gateway course – LST 2010 (3 hours):** Introduction to issues and questions concerning the formation, interpretation, transgression and enforcement of the law.
- **Pro-seminar – LST 2500 (3 hours):** A 1 hour seminar taken for three, and no more than four, semesters. The pro-seminar discusses the interdisciplinary aspect of the study of law and engages current issues that touch on law in society. It is also an opportunity for students and faculty to discuss and assess the program itself.
- **LST elective courses/cross-listed courses (18 hours):** These courses are arranged into “paths” that help students design a curriculum and explore related ideas across disciplinary boundaries. The paths are not exclusive (cross-listed courses show up on more than one path) and need not be exhaustive. Students tailor their programs in consultation with a program adviser. Students are required to take no more than two courses in a given path in the same department. The paths are:

**Path 1:** Law, History and Theory — the historical development of the law and the theoretical and philosophical struggles surrounding its formation, transmission, transgression and enforcement.

**Path 2:** Law, Difference and Social Practices — the effect on law of racial, ethnic, national, gender, cultural and/or psychological differences.

**Path 3:** Law, Institutions and Public Policy — the political, economic and scientific struggles and decisions that produce law and its relations to the populations governed by it.

**Path 4:** Comparative Law — questions of international law, of cross-cultural understandings that form and transcend law, of legal systems and the rule of law as it is understood in non-Western and emerging countries.

- **Upper division seminars: (9 hours)** Students in the major must enroll in at least three seminars designated as “LST Upper Division Seminar” (at the 4000 level) in their junior and senior year. Cross-listed seminars taught at the 4000 level that are not designated as LST Upper Division Seminars will not count toward this requirement, though they will count toward requirements for the major.

- **Field experience: (3 hours, by arrangement)** Majors in LST are required to engage in field experience as a part of their program. The field experience consists of community activism and outreach, cross-cultural dialogue, travel and internship. Students are encouraged to think of the field experience as an opportunity to study and advance their area of specialization. Examples of field experience opportunities include:
  1. Participation in community based social services or outreach programs
  2. Creation of programs designed to complement or supplement legal and social institutions.
  3. Study of an aspect of the relation between legal, cultural and institutional formations.
  4. Comparative study of legal and social formations involving international travel and cooperation.
  5. Employment in and study of a legal profession under the guidance of a practitioner.

#### **Related area courses for the Law and Social Thought major:**

The 18 hours in related fields should be selected from major level courses in the social sciences, foreign languages, classics, philosophy, history and other departments with approval of the adviser. Students are encouraged to satisfy the related requirement by completing a minor.

## **Honors in LST**

Junior and senior majors may work for Honors in law and social thought. Students with a minimum 3.4 GPA in LST (3.3 overall) are eligible for Honors designation. In order to earn Departmental Honors in LST, the student must complete the following requirements (9 hours):

1. A term paper completed for an advanced seminar in LST.
2. An advanced seminar in LST taken for Honors credit (either a seminar offered as an Honors seminar or a seminar taken as Honors through the Honors contract provision) taught by a different LST faculty member from the instructor of the advanced seminar in Honors requirement 1.
3. An honors thesis under the direction of an LST faculty member. Students must enroll in LST Senior Thesis for Honors.

## **Minor in Law and Social Thought**

The minor achieves LST's goals in a way compatible with a more traditional major in an established discipline and with less intensive commitment to the program's more advanced requirements.

Courses taken in the minor, including courses taken in fulfillment of the critical reasoning requirement, must come from a discipline other than the student's major discipline. This policy ensures that the minor will provide intellectual breadth complementary to a specialized curriculum in a traditional discipline.

The LST minor consists of core requirements (6 hours: the gateway course and the course in critical reasoning) and 5 electives (at least one at the 4000 level) from at least three different departments chosen from within a path for a total of 21 hours.

Following are the requirements for the LST minor:

1. **Total hours:**  
21 hours of LST courses with a 2.0 minimum GPA.

2. **Core requirements:**  
Gateway course: LST 2010 (3 hours)

Critical reasoning (3 hours): Recognizing the importance of critical reasoning skills to any student interested in pursuing the study of law, minors in LST will be required to take one course to satisfy a critical reasoning requirement. Many departments offer courses that teach rules and techniques of argumentation or that focus on critical reasoning skills, and these courses will satisfy the critical reasoning requirement per approval of the director of LST. Approved courses might include methods courses in the social sciences and humanities (HIST 2000, PSC 3110, PSY 3120, SOC 3290), or courses that emphasize the theory and practice of criticism or critical thought (ENGL 4780, PHIL 2200 and above, PSC 2800 or COMM 3820). Departmental prerequisites will be respected in every case.

3. **Electives (15 hours):**

Five electives cross-listed or taught for the LST program. Electives should be chosen from one of the four paths listed above in the degree requirements for LST majors

At least one elective must be an LST Upper Division Seminar (LST 4900) compatible with the chosen path.

4. **Independent study:**

No more than one independent study will count toward completion of the minor.

5. **Program of study:**

The student's program of study must be approved by a program adviser and verified before graduation.

#### **Field Experience:**

Strictly speaking, field experience is not a requirement for students pursuing a minor in law and social thought. Field experience – consisting of community activism or outreach, cross-cultural dialogue, travel or internship – is regarded by the law and social thought faculty as fundamental to a university education. Students working toward a minor in LST will be invited to participate in field experience, and elective credit will be offered depending on a student's level of involvement.

## **Linguistics**

(ADMINISTERED BY THE DEPARTMENT OF ENGLISH LANGUAGE AND LITERATURE)

*Dorothy Siegel, adviser*

## **Degrees Offered**

Linguistics offers a bachelor of arts degree.

## **Degree Requirements**

A major of 30 hours in linguistics must include the following:

1. **Core Courses:** LING/ENGL 3150 Linguistic Principles, LING 3160 Phonology, 3170 Syntax, 3180 Morphology, 3190 Sociolinguistics;
2. **One course in historical linguistics must be chosen from ENGL/ LING 4100 History of English, GERM 4500 History of the German Language, SPAN 4070 History of the Spanish Language;**
3. **One course in the structure of a language chosen from ENGL/ LING 4110 Old English, 4120 Middle English, LING 4980 (with adviser's approval); FREN 4010 French Syntax and Stylistics I, FREN 4040 French Linguistics, FREN 4310 Medieval France: Language and Literature; SPAN 4110 Introduction to Spanish Linguistics;**

4. **Three courses chosen from the following (or other appropriate courses with adviser's approval):** ANTH 2800 Cultural Anthropology; LING 4130 American Dialects, LING 4150 Applied Linguistics I, LING 4170 Applied Linguistics II, LING 4180 Representation of Language in the Brain, LING 4980 (with adviser's approval), LING 4990 (with adviser's approval); PHIL 3060 Philosophy of Language, PHIL 3600 Theory of Knowledge, PHIL 3630 Philosophy of Psychology, 4060 Topics in the Philosophy of Language, PHIL 4300 Philosophy of Natural Science, PHIL 4600 Epistemology, PHIL 4650 Philosophy of Mind; PSY 2400 Cognitive Psychology, PSY 3400 Cognitive Neuropsychology, PSY 3410 Psychology of Language.

**Related Requirements:** Linguistics majors should select one of the minors offered by departments and programs within the College of Arts and Sciences. Those offered by anthropology, English, foreign languages, psychology and philosophy are recommended. Alternatively, a student may select courses from a variety of departments and programs with the approval of the linguistics adviser.

## Minor in Linguistics

A minimum of 21 hours is required for the minor in linguistics. Students must take ENGL/LING 3150 and at least one of the courses that are required of students majoring in linguistics:

LING 3160	Phonology
LING 3170	Syntax
LING 3180	Morphology
LING 3190	Sociolinguistics

To satisfy the remaining 15 required hours, students may take any of the courses that can satisfy the linguistics major.

## Honors in Linguistics

Students whose GPA after completing at least 15 of the 30 hours required within the linguistics major is 3.6 or higher in those courses are eligible to participate in Honors in linguistics. In addition to satisfactorily completing an honors thesis, the student may, under appropriate circumstances, participate in another department's senior honors seminar. The designation "Honors" on the diploma will be given to students who receive a grade of A on the honors thesis and maintain a 3.6 GPA in linguistics. Complete details about Honors in linguistics are available from the linguistics adviser.

## Department of Mathematics

*En-Bing Lin, chair*

*Marie Hoover, associate chair*

*Robert Ochs, Honors adviser*

## Degrees Offered

The department of mathematics offers a program for either a bachelor of arts or a bachelor of science degree.

## Advanced Placement

Students with a score of 3 or better on either AB or BC calculus will receive credit for MATH 1850. Students with a score of 4 or 5 on the BC calculus test will receive credit for both MATH 1850 and 1860. Students with a score below 3 may be able to obtain credit by taking a departmental test. Students with a score of 3 or better on the statistics test will receive credit for MATH 2600 or 2630.

## Degree Requirements

To obtain a bachelor's degree in mathematics, students must complete MATH 1860 (or 1930), 1890, 2850 (or 2950) and 3190 and follow one of the following concentrations for a total of at least 35 hours.

### 1. Pure mathematics

- The following are required: MATH 3860, 4330, 4820 and 4880.
- Two courses must be completed from MATH 4300, 4450, 4540 or 4830.
- The remaining coursework may be chosen from courses at the 3000 or 4000 level approved by the adviser.

### 2. Applied mathematics

- The following are required: MATH 3320 or 4330, 3860, 4300 or 4350, 4820 or 4880.
- One of the following two-semester sequences must be completed: MATH 4710 and 4720 or 4740 and 4750.
- The remaining course work may be chosen from courses at the 3000 or 4000 level approved by the adviser.

### 3. Statistics

- The following courses are required: MATH 3610, 3620, 4350, 4600, 4610, 4680 and 4690.

### 4. Mathematics with computer science

- The following are required: MATH 3860, 4380, 4710, 3320 or 4330, 4820 or 4880, 4350 or 4390 or 4720.
- The remaining course work may be chosen from courses at the 3000 or 4000 level approved by the adviser.
- The following are required related area courses: EECS 1530, EECS 1540, EECS 2100, EECS 2550, plus one additional course in EECS chosen in consultation with the adviser for a minimum total of 18 hours.

## Related Courses

The 18 semester hours of related area course work (at 2000-4000 level) should be chosen according to the interests of the student in view of his or her anticipated career in mathematics. These courses could be in accounting, biology, economics, education, engineering, finance, operations analysis, philosophy, physics, psychology, etc. The B.A. degree is awarded to those students who choose a related area in the humanities or social sciences, such as economics, philosophy and psychology. The B.S. degree is awarded to those who choose related areas in science (such as biology or physics), engineering, business administration or computer science.

## Minor in Mathematics

To obtain a minor in mathematics, a minimum of 22 hours in mathematics must be completed. The 22 hours must include MATH 1860 (or 1930), 1890, 2850 (or 2950), and one of 3610, 3860 or 4680. The remaining hours must be courses that are acceptable toward a major in mathematics and must be approved by an adviser in the department of mathematics.

## Honors in Mathematics

- A. Admission:** The normal route for entrance into the Departmental Honors in mathematics is through the Honors calculus sequence: MATH 1920, 1930, 2950 and 3820. Other students should consult with the Departmental Honors adviser.

**B. Requirements:** Graduation with Honors in mathematics depends on doing a substantial amount of work in mathematics beyond the requirements for a bachelor's degree. Independent reading and an expository paper on a topic not usually covered in a course are required. Departmental Honors ordinarily will not be granted without a GPA in mathematics exceeding 3.5 and usually indicates that in the opinion of the Mathematics Majors Committee the student has shown substantial promise for a future career in mathematics. The student who wishes to do independent reading should consult with either the Honors adviser or an instructor of his or her choice. Credit for independent reading is obtained by registering for MATH 3920.

Students who are interested in writing an expository paper on some topic of their own choice should consult with an instructor who has an interest in the subject and register for MATH 4920. The actual program of the student is determined in consultation with the Honors adviser.

## Medieval and Renaissance Studies

(THIS PROGRAM IS AN INTERDISCIPLINARY MAJOR.)

*Roger D. Ray, adviser*

### Degrees Offered

Medieval and Renaissance Studies offers a bachelor of arts degree.

### Degree Requirements

This humanities major provides interdisciplinary study of the medieval and Renaissance civilizations, including the Western world, the Byzantine and Islamic worlds, and Late Greco-Roman and Christian antiquity. It offers formal courses and many possibilities for independent study in art history, English, foreign languages and literature, history, music, philosophy, religion and theatre. The chair of the Committee on Medieval and Renaissance Studies serves as the academic adviser.

The program requires 60 hours of study, distributed as follows:

1. HIST 3100, 3110, 4030, 4040 (12 hours)
2. Electives (39 hours). With the assistance of the adviser, the student must elect a truly interdisciplinary array of courses. If the student cannot satisfactorily read one of the learned or vernacular languages (other than modern English) of the Middle Ages and the Renaissance, some elective hours must be used to achieve this skill.
3. Final Project (9 hours). This is a research or creative activity leading to a formal paper or an artistic expression. As a rule, it requires the reading of primary sources in the original language. The hours may be spread over a full academic year, distributed between two semesters or earned entirely in one. The Committee on Medieval and Renaissance Studies approves the written proposal and appoints a faculty supervisor. The project may be concentrated in one field, such as philosophy; but an interdisciplinary committee of three faculty members, including the project supervisor, grades it.

## Middle East Studies

(THIS PROGRAM IS AN INTERDISCIPLINARY MAJOR.)

*Elias T. Nigem, adviser*

## Degrees Offered

Middle East Studies offers a bachelor of arts degree.

### Degree Requirements

Middle East Studies is a specialization within the global studies major described previously. Its offerings are designed to provide students an appropriate exposure to the history, religions, cultures and socioeconomic systems of the Middle East and, in turn, that region's relations with the rest of the world, as well as to create balanced perceptions of the various factors and phenomena in the Middle East in the historical and contemporary contexts.

This program provides background information and formal training for those planning to engage in international activities, such as business, banking, communication, journalism and engineering sciences, involving the Middle East. The program is designed for both domestic and international students.

In addition to the college general education requirements, the Middle East Studies program requires a total of 48 semester hours that must be chosen in consultation with the adviser. Eighteen hours of courses are required, while considerable latitude is available in choosing courses to meet the remaining 30 hours. The following provides a guideline for students interested in Middle East Studies:

- A. Social science courses** – approximately 21 hours from the following:
- Required:** PSC 4670 and PSC 4740 (3 hours each)
- Electives:** ANTH 2750, ANTH 2800, ECON 4510, ECON 4520, GEPL 3810, PSC 2700, PSC 4730, SOC 4340, SOC 4980, SOC 4800
- B. History/humanities courses** – approximately 21 hours from the following:
- Required:** HIST 1120, 2040, 4520 and 4530 (3 hours each)
- Electives:** HIST 2080, HIST 4390, HIST 4400, PHIL 3500, PHIL 3570, REL 2310, REL 2330, ARBC 1110, 1120, 2140, 2150
- C. Related courses** – approximately 6 hours of related courses are chosen in consultation with the adviser. Students are encouraged to take courses in foreign languages of the Middle East.

## Department of Music and Dance

*Raymond Marchionni, chair*

*Erik Johanson, undergraduate adviser, B.A., B.M.*

*Timothy D. Brakel, Suzanne Burton, undergraduate advisers, music education*

*David Jex, graduate adviser, M.M. in Performance, M.M.E.*

### Degrees Offered

The department of music and dance offers the bachelor of arts, bachelor of music and bachelor of music education degrees.

### Advanced Placement

Because students come to the department of music and dance with such varied backgrounds, advanced placement is not uncommon, particularly in applied music. For further information, contact the department of music and dance.

## Requirements for the Bachelor of Arts Degree

The major of 34 hours in music must be distributed as follows:

- Music theory: MUS 1610, 1620, 2610 — 12 hours
- Music history and literature: MUS 2410, 3410, 3420 — 9 hours
- Applied vocal or instrumental instruction: appropriate courses (determined by proficiency levels) from MUS 2800 or 4800 (at least 4 hours must be in the same instrument or voice) — 6 hours
- Each music major must enroll in one of the following ensembles on the major instrument each semester of enrollment for 8 hours or more until graduation: MUS 2010, 2040, 2050:036, 2050:044 (if qualified), 2090, 2130, 2140, 2160, 2180. The minimum requirement is an accumulation of 8 hours of ensemble credits, but only 4 hours may count toward the 124 hours required for the degree.
- Each music major must accumulate 8 semesters of satisfactory attendance in MUS 1000:001, the weekly recital period. Requirements pertaining to this course are listed in *The Music Student's Handbook*.
- Electives — 3 hours

All music majors must register for MUS 1000:003 for 8 semesters or until the requirement is completed. The requirement is to attend at least 80 (minimum of 10 each semester when a full-time student) concerts sponsored by the department and 16 nondepartmental concerts before graduation. Transfer students will be required to attend a total number of concerts proportionate to credits transferred.

Students may elect an additional 16 hours of music courses beyond the required 34 hours of basic courses for a maximum of 50 of music within the 124 hours for the bachelor of arts degree. It is recommended that these additional courses include MUS 2620, additional music history and literature courses and at least three additional semesters of applied music in the student's major performing area.

The requirement of 18 hours in related courses must be chosen from major level courses in the other humanities. Students may elect to present a full or half recital in their senior year.

## Requirements for the Bachelor of Music Degree

The bachelor of music degree is designed to prepare the student for a professional career in performance. The student may major in voice, piano, organ, a stringed instrument, guitar, wind instrument, percussion or instrumental jazz. Each student must present a formal recital in the junior and senior year as a departmental requirement without academic credit. A student may be admitted to this program only with the approval of the music faculty, usually determined by a special audition. Before graduation, each student must be able to demonstrate satisfactorily the ability to perform music on the eighth level of proficiency for the particular instrument or voice. The proficiency levels are described in a special circular available in the department office.

All music majors must register for MUS 1000:003 and attend at least 80 concerts (minimum of 10 each semester when a full-time student) sponsored by the department and 16 nondepartmental concerts before graduation. Transfer students will be required to attend a total proportionate to credits transferred.

The nonmusic courses for the bachelor of music degree total 43 hours and are distributed as follows:

- ENGL 1110 English Composition I and one from ENGL 1130-1230 English Composition II — total of 6 hours
- PSY 1010 — 3 hours, and one other non-PSY social science—total of 6 hours
- MATH 1180 and two natural science courses from different disciplines—total of 9 hours
- Courses chosen from the humanities, other than music — 14 hours  
Voice majors must take at least one semester each of French and German as part of their humanities requirement.
- Nonmusic electives — 8 hours
- Students must satisfy the multicultural core requirements (6 hours) as part of a., b., d. and e. above.

## Core Courses

Music courses required of all students in the bachelor of music program, referred to as core courses, total 65 hours as follows:

- Music Theory: MUS 1610, 1620, 2610, 2620, 3610, 4620 — 22 hours
- Music History and Literature: MUS 2410, 3410, 3420 — 9 hours
- Applied Music in major area: appropriate courses (determined by proficiency levels) from MUS 2800 or 4800 — 32 hours
- Conducting: MUS 3500 — 2 hours
- MUS 1000:003: All music majors must attend at least 80 (minimum of 10 each semester when a full-time student) concerts sponsored by the department and 16 nondepartmental concerts before graduation. All music majors must register for MUS 1000:003 for 8 semesters or until the requirement is completed. Transfer students will be required to attend a total number of concerts proportionate to credits transferred.

In addition, students in the various performance areas will take courses in piano, ensembles and music electives, as indicated below.

**Voice Majors** take 17 hours, distributed as follows:

- Piano: appropriate courses (determined by placement test) — 4 hours
- Performing groups: 4 semesters of MUS 2130 or 3130. (Students must enroll in one of these courses each semester they are taking 12 hours or more.) Special vocal ensembles may substitute for either with departmental permission. The minimum requirement is an accumulation of 8 hours of ensemble credits, but only 4 hours may count toward the 124 hours required for the degree — 4 hours
- Vocal Music Literature: MUS 4420 — 3 hours
- Diction: MUS 2530, 2540 — 2 hours
- Teaching of singing: MUS 3550 — 2 hours
- Music electives chosen from upper division academic music courses — 2 hours

**Piano and Organ Majors** take 17 hours, distributed as follows:

- Performing groups: 4 semesters of MUS 2130 or 3130; 2 semesters of MUS 2/3050:041 or 2/3050:043; and 8 semesters of MUS 2/3050:044. The distribution of MUS 2/3050 ensembles indicated here is flexible and may be adjusted to individual needs with the approval of the applied music teacher. The minimum requirement is an accumulation of 8 hours of ensemble credits, but only 4 hours may count toward the 124 hours required for the degree— 4 hours

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- b. Functional Piano Techniques, Piano Pedagogy and Keyboard Literature, MUS 3580, 3590, 4450 — 7 hours
- c. Music electives chosen from upper division academic music courses — 6 hours

**String Majors** take 17 hours, distributed as follows:

- a. Piano: appropriate courses (determined by placement test) — 3 hours
- b. Performing groups: 4 semesters of MUS 2090 or 3090 (students must enroll in MUS 2090/3090 each semester they are taking 12 hours or more), 2 semesters of MUS 2130/3130 and 4 semesters of any choice of small ensembles that include the student's major instrument. The minimum requirement is an accumulation of 14 hours of ensemble credits, but only 4 hours may count toward the 124 hours required for the degree — 4 hours
- c. Instrumental Music Literature: MUS 4410 — 3 hours
- d. String Class: MUS 1500 — 2 hours
- e. Music electives, chosen from upper division academic music courses — 5 hours

**Guitar Majors** take 17 hours, distributed as follows:

- a. Piano: appropriate courses (determined by placement test) — 3 hours
- b. Performing groups: 4 semesters of MUS 2/3050:036 (guitar ensemble), 2 semesters of MUS 2/3050:044 (accompanying on guitar) or 2/3050:071 (mixed ensemble) and 2 semesters of MUS 2/3130, 2/3140, 2/3160 or 2/3180. Students must enroll in MUS 2/3050:036 or any large ensemble (MUS 2/3010, 2/3040, 2/3090 or 2/3130) each semester they are taking 12 hours or more. The minimum requirement is an accumulation of 12 hours of ensemble credits, but only 4 hours may count toward the 124 hours required for the degree — 4 hours
- c. Guitar Pedagogy (MUS 3570) and Guitar History and Literature (MUS 4460) — 5 hours
- d. Music electives, chosen from upper division academic music courses — 5 hours

**Wind and Percussion Majors** take 17 hours, distributed as follows:

- a. Piano: appropriate courses (determined by placement test) — 3 hours
- b. Performing groups: at least 4 semesters chosen from MUS 2/3010, 2/3040 and 2/3090 (students must enroll in one of these courses each semester they are taking 8 hours or more) with a minimum of 2 semesters of MUS 2/3010 and/or MUS 2/3040, and a minimum of 2 semesters of MUS 2/3090. In addition, 2 semesters of MUS 2/3130 and 4 semesters of any choice of small ensembles that includes the student's major instrument. The minimum requirement is an accumulation of 14 hours of ensemble credits, but only 4 hours may count toward the 124 hours required for the degree — 4 hours
- c. Instrumental Music Literature: MUS 4410 — 3 hours
- d. Pedagogy on major instrument: MUS 1500, 1530, 1550 or 2500 — 2 hours
- e. Music electives, chosen from upper division academic music courses — 5 hours

**Instrumental Jazz Majors** take 17 hours, distributed as follows:

- a. Performing groups: 4 semesters of MUS 2/3020, 2 semesters of MUS 2/3130 and 2 semesters of other large ensemble on the major instrument (students must enroll in one of these courses each semester they are taking 8 hours or more). The minimum

requirement is an accumulation of 12 hours of ensemble credits, but only 4 hours may count toward the 124 hours required for the degree — 4 hours

- b. Jazz Improvisation: MUS 3540, 4 semesters. Satisfactory proficiency levels, determined at the final exam, must be reached; proficiency level information will be given in class — 4 hours
- c. Jazz Arranging: MUS 3650 — 3 hours
- d. Jazz History and Literature: MUS 3450 — 3 hours
- e. Pedagogy on major instrument: MUS 1500, 1530, 1550 or 2500 — 2 hours
- f. Music electives, chosen from upper division academic music courses — 1 hour

The instrumental jazz major takes the music core courses as stated, with the following exceptions:

- a. The 32 hours of applied music will include 28 hours of one major instrument (or combination of instruments with the consent of the adviser) reaching at least a level 6 in traditional classical music literature. The other 4 hours will include 2 semesters of class piano and two hours credit of applied piano lessons.
- b. The jazz proficiency requirement will be satisfied after completion of two events: achievement of the highest level in jazz improvisation class and passing the senior recital jury. The senior recital must contain both a substantial amount of jazz (in various styles) as well as level 6 solo material from the applied lessons.

## Requirements for the Bachelor of Music Education Degree

For details on the baccalaureate program in music education, see the College of Education portion of this catalog.

### Minor in Music

Students electing to pursue a minor in music choose one of the six areas of concentration outlined below. It is the student's responsibility, in consultation with the student's major adviser and the music adviser, to see that the necessary course work is included in the total number of undergraduate courses taken. Students outside the College of Arts and Sciences should ensure that the minor in music is an approved program within their college. Candidates for the minor in music must have their course work verified and approved by the adviser for the department of music and dance prior to making formal application for graduation. This can be done by presenting a transcript to the music adviser and completing the verification form for the minor in music.

Students must maintain a minimum GPA of 2.0 for all course work completed in the minor. In addition to the courses specified below, the student must attend at least 30 concerts sponsored by the department of music and dance and 6 non-departmental concerts before graduation. Transfer students will be required to attend a total number of concerts proportionate to credits transferred.

<b>Jazz Concentration</b>		<b>Hours</b>
MUS 1000:001	Recital (2 semesters) .....	0
MUS 1570-2580	Piano Class .....	1
MUS 1610	Music Theory .....	4
MUS 2800, etc.	Applied Music* .....	8
MUS 2020/3020	Jazz Band (8 semesters) .....	4
MUS 3450	Jazz History and Literature .....	3
MUS 3540	Jazz Improvisation .....	2
<b>Total</b>		<b>22</b>



**Instrumental Concentration**

MUS 1000:001	Recital (2 semesters)	0
MUS 1570-2580	Piano Class	1
MUS 1610	Music Theory	4
MUS 2800, etc.	Applied Music*	8
MUS 2010/3010, 2040/3040, 2050/3050:36 (guitarists), 2090/3090 (8 semesters)		4
MUS 2410	Music History and Literature	3
Music electives		2
<b>Total</b>		<b>22</b>

**Vocal Concentration**

MUS 1000:001	Recital (2 semesters)	0
MUS 1570-2580	Piano Class	1
MUS 1610	Music Theory I	4
MUS 2800, etc.	Applied Music*	8
MUS 2130/3130, 2140/3140, 2160/3160, 2180/3180, Chorus, Women's Chorus, Men's Chorus, Chorale (8 semesters)		4
MUS 2410	Music History and Literature	3
Music electives		2
<b>Total</b>		<b>22</b>

**Keyboard Concentration**

MUS 1000:001	Recital (2 semesters)	0
MUS 1610	Music Theory I	4
MUS 2800, etc.	Applied Music*	8
MUS 2010/3010, 2040/3040, 2050/3050:44, 2090/3090, (2130/3130), 2140/3140, 2160/3160, 2180/3180		4
MUS 2410	Music History and Literature	3
MUS 3580	Functional Techniques	2
MUS electives		1
<b>Total</b>		<b>22</b>

**Music Theory Concentration**

MUS 1000:001	Recital (2 semesters)	0
MUS 1570-2580	Piano Class	3
MUS 1610, 1620, 2610, 2620		16
MUS 2410	Music History and Literature	3
<b>Total</b>		<b>22</b>

**Music History and Literature Concentration**

MUS 1000:001	Recital (2 semesters)	0
MUS 1570-2580	Piano Class	1
MUS 1610	Music Theory I	4
MUS 2410, 3410, 3420		9
MUS 4000 level	History Class	3
MUS electives		5
<b>Total</b>		<b>22</b>

**Music Technology Concentration**

MUS 1000	Recital Recording (to be taken concurrently with MUS 3270)	0
MUS 1570-2580	Piano Class	1
MUS 1610	Music Theory I	4
MUS 2260	Electronic Music	2
MUS 3260	Advanced Electronic Music	2
MUS 2270	Recording Techniques	2
MUS 3270	Advanced Recording Techniques	2
MUS 3470	Theatre Sound	3
MUS 4990	Special project (2 semesters – 3 hours each)	6
PHYS 1310	Physics of Music and Sound (required science elective)	3
<b>Total</b>		<b>22</b>

\* At least 6 hours must be in the same instrument or voice.

**Honors in Music**

All music majors have an opportunity to qualify for a Departmental Honors citation in music if they maintain a minimum 3.0 cumulative GPA through the junior year and at least a 3.5 average in 12 hours of work chosen from the following courses: MUS 3450, 3460, 3470, 3480, 3490, 4410, 4420, 4430, 4440, 4450, 3610, 3620, 4620, 4630, 4640, 4690 (this course may be taken only once toward Honors program credit) and 4980 (this may be an "honors only" section). Students interested in honors recognition should complete an intent (to qualify) form available in the music office at the beginning of their sophomore year. In the senior year, the faculty honors committee will invite qualified students to undertake a special three-hour project (MUS 4990) on a topic approved by the Honors in music faculty. Each student will work with an assigned adviser and present an oral defense of the completed project. Satisfactory work will be rewarded by an honors citation recorded in the student's permanent file and in the proper graduation bulletin.

**Paralegal Studies and Political Science**

(THIS PROGRAM IS AN INTERDISCIPLINARY MAJOR.)

*David Wilson, adviser*

**Degrees Offered**

The paralegal studies and political science program offers a bachelor of arts degree in political science.

**Degree Requirements**

This 2 + 2 program allows the student to complete an associate's degree in paralegal studies from the College of Health and Human Services and a bachelor's degree in political science. Students selecting this program should work closely with their academic advisers in both parts of the program and with the paralegal studies program coordinator. After completing the associate's degree requirements, a student must complete at least 64 hours of additional course work in the College of Arts and Sciences. This course work must include the following:

- 0-14 hours in a foreign language, depending on demonstrated proficiency. Students entering the College of Health and Human Services in the 2 + 2 program should take a foreign language competency exam immediately and concurrently take language courses with the paralegal curriculum.
- Three courses (minimum of 9 hours) in the humanities (history, English literature, fine arts, philosophy or communication).
- Two courses (minimum of 6 hours) in natural sciences (astronomy, biology, chemistry, geology or physics).
- Completion of the major in political science as follows:
  - PSC 1200 American National Government (3 hours) plus a minimum of 30 additional hours in political science chosen in consultation with a departmental adviser.
  - One course from 3 of the following 4 fields:

**Public Administration**

PSC 3420 Principles of Public Administration ..... 3

**International Relations**

PSC 2700 Principles of International Relations ..... 3

**Comparative Government**

PSC 2610 Government of Great Britain or

PSC 2620 Comparative Politics of Continental Europe or

PSC 2660 Politics in Africa ..... 3

**Political Theory**

PSC 2800 Principles of Political Theory ..... 3

- c. Completion of additional courses in the department to satisfy the 30-hour requirement.
- d. Minimum of 18 hours (6 courses) in fields related to political science (these could include courses in such areas as law and society, legal history, criminology, philosophy of law, business and labor law).
- e. Electives to bring the total to a minimum of 64 hours. Students must also satisfy The University of Toledo Core Curriculum requirements.

**Paralegal Studies and Spanish**

(THIS PROGRAM IS AN INTERDISCIPLINARY MAJOR)

*Juan Martin, adviser*

*Antonio Varela, adviser*

**Degrees Offered**

The paralegal studies and Spanish program offers a bachelor of arts degree in Spanish.

**Degree Requirements**

This 2 + 2 program allows the student to complete an associate’s degree in paralegal studies from the College of Health and Human Services and a bachelor’s degree in Spanish. Students selecting this program should plan to work closely with their academic advisers in both parts of the program and with the paralegal studies coordinator. After completing the associate’s degree requirements, a student must complete at least 64 hours of additional course work in the College of Arts and Sciences. This course work must include the following:

- 1. One course in history (3 hours).
- 2. Three courses (minimum 9 hours) in natural sciences.
- 3. One course (3 hours) in social sciences.
- 4. The following courses in Spanish (for a total of 34 hours):
  - SPAN 3000 Spanish Grammar ..... 3
  - SPAN 3010 Conversation and Composition I ..... 3
  - SPAN 3020 Conversation and Composition II ..... 3
  - SPAN 3170 Business Spanish ..... 3
  - SPAN 3420 Latin American Civilization ..... 3
  - SPAN 4010 Syntax and Stylistics ..... 4
  - SPAN 4060 Translation and Interpretation in Spanish ..... 3
  - Additional 3000/4000 level courses\* ..... 12
  - \*chosen in consultation with the adviser
- 5. Electives to bring the total to a minimum of 64 hours. Students also must satisfy The University of Toledo Core Curriculum requirements.

**Department of Philosophy**

*Eric W. Snider, chair*

*Madeline Muntersbjorn, undergraduate adviser*

**Degrees Offered**

The department of philosophy offers a bachelor of arts degree.

**Requirements for the Undergraduate Major**

The major of 30 hours in philosophy must include the following:

- 1. PHIL 3210 and PHIL 3230
- 2. Either PHIL 3000 or PHIL 3060
- 3. Either PHIL 3400 or PHIL 3750
- 4. One of the following philosophy courses: 3240, 3250, 3500, 3540, 4240, 4250, 4260, 4270 or 4500
- 5. At least two 4000 level philosophy courses
- 6. The student also should take 18 hours of related courses. These courses should be selected in consultation with the adviser.

Students may take a maximum of two courses with P/NC in the major and may opt for P/NC in all related courses.

Majors planning to pursue graduate study in philosophy are encouraged to take PHIL 3000, 3060, 3400, 3750, as well as PHIL 3600 or 4000 level courses in these core areas of philosophy.

Specialized programs of study can be designed for majors preparing for professional careers in law, medicine or business. See the undergraduate adviser for details.

**Honors in Philosophy**

- A. **Admission:** Junior and senior majors with an overall minimum GPA of 3.3 may work for the citation “Honors in Philosophy.”
- B. **Requirements:** Upon graduation, the student shall have a 3.6 GPA in philosophy courses. The student shall complete a substantial term paper in each of two courses with two different philosophy faculty members:
  - 1. One paper shall be work completed for a regular 4000 level seminar.
  - 2. One paper shall be an Honors Thesis completed while registered or PHIL 4990 under the direction of a second faculty member.

Upon the recommendation of the two respective instructors and with the approval of a majority of the philosophy faculty, the student shall be awarded the citation “Honors in Philosophy.”

**Minors in Philosophy**

A minor in philosophy complements a variety of university major programs in the humanities, the social and natural sciences, education and business. All minors in philosophy must meet the following requirements:

- 1. 21 hours in philosophy with a 2.0 GPA
- 2. PHIL 3210 or 3230
- 3. At least one course numbered 4000 or above
- 4. No more than one independent study, PHIL 4920, will count toward the completion of the minor.
- 5. Program of study must be approved by the department undergraduate adviser and verified before graduation.

Specific predesigned programs of study are available in the following areas:

- Prelaw
- Philosophy and medicine

Philosophy and education  
Philosophy of natural science  
Philosophy of social science

Also available is a philosophy minor with Honors. Specific requirements are:

1. Requirements 1. - 5. above
2. At least two courses at the 4000 level
3. Either an honors section of a 3000 level course or a 3000 level course taken under an honors contract.
4. A GPA of 3.3 in philosophy.

## Department of Physics and Astronomy

*Philip B. James, chair*

*Karen S. Bjorkman, undergraduate adviser, astronomy*

*Scott A. Lee, undergraduate adviser, physics*

### Degrees Offered

The department of physics and astronomy offers courses of study leading to the bachelor of science degree in physics, the bachelor of arts in physics and the bachelor of arts in astronomy.

### Advanced Placement

Students with a score of 3 on the Physics B test will receive credit for PHYS 2070; students with a score of 4 or 5 on the B test will receive credit for PHYS 2070 and 2080. Students with a score of 4 or 5 on the Physics C Mechanics test will receive credit for PHYS 2130; students with a score of 4 or 5 on the Physics C Electricity and Magnetism test will receive credit for PHYS 2140.

### Requirements for the Bachelor of Science in Physics

The B.S. in physics consists of a core program that all students must complete and a choice of one concentration with additional requirements as listed below. The core program contains 19 hours of physics courses and 32 hours of related-area courses; the concentration must contain an additional 23-24 hours of physics and related courses.

#### Core Program

**Core physics courses:** PHYS 2130, 2140, 3310, 3320 and 3410 are required. With department approval, a student may substitute PHYS 2070, 2080 and 2100 for PHYS 2130 and 2140. The introductory course PHYS 1910 is also strongly recommended for all physics majors.

**Related courses:** CHEM 1230, 1280, and MATH 1850, 1860, 1890, 2850, 3860 are required. Also required are 9 additional hours of courses from natural sciences, mathematics or engineering, chosen with the adviser's approval.

#### Concentrations

The student must choose one of the following concentrations:

**Physics:** PHYS 3180, 3610, 4210, 4230, 4310, and either 4580 or 4780, plus 6 hours chosen from PHYS courses numbered above 4000, and ASTR 4810, 4820, 4880.

**Astrophysics:** PHYS 3610, 4210, 4230, and ASTR 4810, 4820, 4880, plus 6 hours chosen from PHYS courses numbered above 3100.

**Applied Physics:** PHYS 3610, 4210, 4230, 4510, and either 4580 or 4780, plus 9 hours of appropriate courses from physics or engineering, chosen with the adviser's approval.

Other concentrations may be designed on consultation with a departmental adviser and must be approved by the department chair. Such options might include but are not limited to: biophysics, computational physics, geophysics, physics and philosophy, and teaching physics.

### Requirements for the Bachelor of Arts in Physics

The B.A. in physics consists of 30-35 hours in the department of physics and astronomy, 8 hours of calculus, and at least 10 additional hours in the natural sciences and mathematics, chosen with the adviser's approval. This program is intended to provide the flexibility required by students who wish to pursue interdisciplinary studies, or prepare for careers in teaching or other professions requiring a fundamental understanding of the physical sciences.

**Recommended introductory course:** PHYS 1910 is strongly recommended.

**Fundamental physics sequence:** Either the sequence PHYS 2130-2140 (10 hours) or the sequence PHYS 2070-2080-2100 (12 hours) is required.

**Other required physics courses:** The intermediate level courses PHYS 3310, 3320, 3410, 3180, and either 3610 or 4620 are all required.

**Elective courses in the major:** At least 6 hours of additional physics or astronomy courses numbered above 4000 are also required.

**Required mathematics courses:** MATH 1850, 1860 are required.

**Other courses in related areas:** At least 10 hours of other courses must be taken in natural sciences and mathematics, with the selection approved by the student's adviser. Examples of appropriate choices include the sequences BIOL 2150, 2160, 2170, 2180; CHEM 1230, 1240, 1280, 1290; GEOL 1010, 2210, 2220; MATH 1890, 2850, 3860.

### Requirements for the Bachelor of Arts in Astronomy

Please refer to the astronomy section earlier in this catalog.

### Interdepartmental Major

While any course that fulfills the requirements of a physics concentration may be used in fulfilling the requirements for the interdepartmental major, the department recommends that interested students choose the 19 hours in the physics core. Interested students should meet with a departmental adviser to discuss which courses would be most appropriate.

### Minor in Physics or Astrophysics

Students seeking a minor in physics must complete at least 21 hours of course work in physics as follows:

**Required for both minors:**

PHYS 2130 and 2140

or 2070, 2080 and 2100; 3310 and 3180.

**Required for the physics minor:**

PHYS 3320 and either 4580 or 4780.

**Required for the astrophysics minor:**

ASTR 4810 and 4820.

Students must maintain a minimum GPA of 2.0 for all course work in the minor. Candidates for the minor must have their course work verified

and approved by a departmental adviser or chair prior to making formal application for graduation.

## Honors in Physics and Astronomy

Qualified juniors and seniors may be invited to work for the citation “Honors in Physics and Astronomy.”

- A. **Admission:** The Honors program in the department of physics and astronomy is open to physics majors and may be taken concurrently with College Honors. Admission to the program is based upon the student’s academic achievement (at least a 3.0 GPA overall; 3.3 GPA in the major), recommendations of previous instructors and an interview with the departmental Honors officer. A petition for entrance into the program normally should be made before the end of the sophomore year.
- B. **Requirements:** In order to remain in the program and graduate with departmental Honors, the students must maintain at least a 3.0 cumulative GPA and a 3.3 GPA in the major. In addition to the normal requirements for a physics undergraduate major, the student must successfully complete 6 hours of physics with Honors in courses numbered above 3320\*, 6 hours of math at or above the 3000 level and 3 hours of PHYS 4910. PHYS 4910 is independent research and requires a written thesis and presentation of an oral report upon completion of work. The oral report and written thesis will strongly influence the granting of the Honors citation.

\*ASTR 4810, 4820 may count toward this requirement.

## Department of Political Science and Public Administration

*Lynn W. Bachelor, chair*

*Carter A. Wilson, undergraduate public administration adviser*

*David S. Wilson, undergraduate adviser*

*James W. Lindeen, undergraduate adviser*

### Degrees Offered

The department of political science and public administration offers a bachelor of arts degree with optional specializations in legal studies and public administration.

### Advanced Placement

Students with a score of 3, 4 or 5 on the American Government and Politics examination will receive credit for PSC 1200. Students with a score of 3, 4 or 5 on the Comparative Government test will receive credit for PSC 1100.

## Requirements for the Undergraduate Major

The bachelor of arts degree in political science requires:

1. PSC 1200 American National Government (3 hours) plus a minimum of 30 additional hours in political science chosen in consultation with a departmental adviser.
2. One course from three of the following four fields:
  - Public Administration**
  - PSC 3420 Principles of Public Administration .....3
  - International Relations**
  - PSC 2700 Principles of International Relations .....3

### Comparative Government

PSC 2610 Government of Great Britain or

PSC 2620 Comparative Politics of Continental Europe or

PSC 2660 Politics in Africa .....3

### Political Theory

PSC 2800 Principles of Political Theory .....3

3. Completion of additional courses in the department to satisfy the 30-hour requirement.

**Related course work requirements:** The required 18 hours of related course work should be chosen according to the student’s interests and objectives. Selections should be made from 2000 level and higher courses in any other social science (anthropology, economics, geography, psychology and sociology), or in history or philosophy. Selected courses offered by the department of communication or in the College of Business Administration also may be used. Completion of a minor or of a second major in any department of the University also will be accepted as the department’s related requirement.

## Specialization in Legal Studies

The specialization in legal studies allows students to focus their attention on law, legal processes and institutions and legal theory for careers in the legal professions, for leadership in public affairs and for an interesting major. This liberal arts specialization provides excellent preparation for law school and a subsequent career as a lawyer, judge or other legal professional.

The foundation for this specialization is the bachelor’s degree in political science – PSC 1200 American National Government, the minimum of 30 additional hours in political science and satisfaction of the three-course “gateway” requirement listed under 2. above. Within the 30 hour requirement, the specialization has two core courses of its own (PSC 2300 Principles of State & Local Government and PSC 3500 Principles of Law), plus four courses from among the department’s specialized law and legal studies course offerings: PSC 3510 Constitutional Law I; PSC 3520 Constitutional Law II; PSC 4530 Civil Rights; PSC 4550 Issues in Contemporary Law; PSC 4560 Law & Public Administration; PSC 4570 Judicial Process & Jurisprudence and PSC 4580 International Law.

## Specialization in Public Administration

The department also offers a specialization in public administration within the major in political science. The objective of this program is to prepare students for careers in public and nonprofit organizations upon graduation, as well as to provide a basis for subsequent graduate work in a wide variety of professional programs.

The foundation for this specialization is the bachelor’s degree in political science, within which students must have included four core courses: PSC 1200, American National Government; PSC 2300, Principles of State and Local Government; PSC 3110, Social Science Statistics and PSC 3420, Principles of Public Administration. In addition to this 13-credit core, students must take at least one course in each of four required areas of specialization: organization theory, public policy, personnel administration and financial administration. A detailed list of the many courses within each of these four areas can be obtained from the undergraduate public administration adviser.

## Minor in Political Science

Students seeking a minor in political science must complete at least 21 hours of course work at the 2000 level or above in the discipline, chosen in consultation with a departmental adviser. It is recommended that

minors include in their undergraduate program the introductory course in PSC 1200 American National Government and three of the four gateway subfields. At least 9 of the 21-credit hour minimum must be at the 3000-4000 levels.

## Minor in Public Administration

The minor in public administration is comprised of 21 hours of course work. The minor is not available to undergraduate political science majors; political science majors with an interest in public administration should pursue the specialization in public administration.

Students minoring in public administration should take the following courses:

### Required Courses (9 hours):

PSC	3110	Social Science Statistics
PSC	3420	Principles of Public Administration
PSC	4180	Computer Applications in Public Administration (or equivalent)

### Electives (12 hours):

#### Part A — Two courses from the following:

PSC	4370	Administrative Behavior
PSC	4430	Public Personnel Administration
PSC	4440	Budgeting and Financial Administration
PSC	4460	Policy and Administration
PSC	4470	Public Organization Theory

#### Part B — Two courses from the following:

PSC	3260	Government and the Economy
PSC	3310	Municipal Government
PSC	3510	Constitutional Law I
PSC	3730	American Foreign Policy
PSC	4250	Intergovernmental Relations
PSC	4330	Health Care Policy
PSC	4340	Environmental Policy and Administration
PSC	4350	Health Care Delivery Systems
PSC	4360	Ethics in Public Policy and Administration
PSC	4410	Management of Nonprofit Organizations
PSC	4480	Comparative Public Administration
PSC	4490	Current Topics in Public Administration

## Honors in Political Science

The department offers Honors study both through its involvement with the University-wide Honors program and through our own undergraduate program. Those who are likely to have a GPA of at least 3.3 by time of graduation are encouraged to apply for departmental honors, which requires the completion of:

PSC	3900	Honors Seminar	3
PSC	3990	Independent Study for Honors	3
PSC	4960	Senior Honors Thesis	3

## Specialized Studies

With the guidance of a member of the faculty, students may design a specialized program of study, such as political communications, political economy, political leadership or citizenship.

## Department of Psychology

*Robert A. Haaf, chair*

*Rickye S. Heffner, associate chair and Honors adviser*

## Degrees Offered

The department of psychology offers a bachelor of arts degree.

## Advanced Placement

Students with a score of 3, 4 or 5 will receive credit for PSY 1010.

## Requirements for the Undergraduate Major

The major in psychology must include a minimum of 35 semester hours of psychology courses as well as 18 hours of related courses. Courses for the major in psychology may not be taken as P/NC. Students are encouraged to choose one of two degree tracks by the second semester of their sophomore year. A senior thesis may be conducted as part of the curriculum in either track. However, those students earning the Honors in psychology graduation citation must choose the preprofessional track.

Prior to declaring the major in psychology, the student must meet the following requirements:

1. Overall GPA of 2.0 or higher.
2. Completion of the general education core requirement in English composition with a grade of C (Pass) or higher.
3. Completion of the general education core requirement in mathematics with a grade of C (Pass) or higher (students taking PSY 2100 must complete MATH 1320 or equivalent as a prerequisite for PSY 2100).

## Preprofessional Track

This track is designed to be a predoctoral track. Its purpose is to prepare students for graduate training in specialized areas of psychology and to prepare students for graduate work in related disciplines.

### Required basic psychology courses: 15 hours

Students must select 5 of 6 courses.

PSY 2200	Abnormal Psychology
PSY 2400	Cognitive Psychology
PSY 2500	Developmental Psychology <b>or</b> PSY 2510 Lifespan Developmental Psychology
PSY 2600	Psychobiology
PSY 2610	Learning and Motivation
PSY 2700	Social Psychology

### Required methodological courses: 11 hours

PSY 2100 Statistical Methods

PSY 3110 Research Methods in Psychology

Advanced Research Course. Select one of the following courses:

PSY 4100	Research Practicum
PSY 4110	Qualitative Research Methods
PSY 4200	Research in Clinical Psychology
PSY 4400	Research in Cognitive Psychology
PSY 4500	Research in Developmental Psychology
PSY 4600	Research in Psychobiology and Learning
PSY 4700	Research in Social Psychology
PSY 4910	Independent Research

### Elective psychology courses: 9 hours

This category includes all courses offered by the department at the 3000 or 4000 level that are not taken to meet requirements above. No more than a total of 4 hours of Externship in Psychology (PSY 3940), Research Practicum (PSY 4100), Independent Study (PSY 4990) and Independent Research (PSY 4910).

### Related courses: 18 hours

The 18 hours of related courses are taken outside the department of psychology and must be approved by the student's department adviser.

- a. At least 9 hours must be courses numbered 3000 or higher.
- b. Fundamentals of Biology (BIOL 2150), with lab (BIOL 2160), must be included in the related courses category if not taken within the natural science distributive requirement.
- c. A minor in another department may be used to complete the remaining related courses requirement, with the adviser's approval.

**Liberal Arts Track**

This track is intended for those students who wish to pursue an applied career at the B.A. level, and for students with broad interests outside of psychology. Students are exposed to all of the major substantive areas of psychology and a senior thesis may be completed as part of the liberal arts track curriculum.

**Required basic psychology courses: 15 hours**

Students must select 5 of 6 courses.  
 PSY 2200 Abnormal Psychology  
 PSY 2400 Cognitive Psychology  
 PSY 2500 Developmental Psychology **or**  
 PSY 2510 Lifespan Developmental  
 PSY 2600 Psychobiology  
 PSY 2610 Learning and Motivation  
 PSY 2700 Social Psychology

**Required methodological courses: 7 hours**

PSY 3120 Understanding Psychological Research  
 PSY 3940 Externship in Psychology **or**  
 PSY 4100 Research Practicum

**Elective psychology courses (including one Writing Intensive course): 13 hours**

This category includes all courses offered by the department at the 3000 or 4000 level that are not taken to meet requirements above. No more than a total of 4 hours of Externship in Psychology (PSY 3940), Research Practicum (PSY 4100), Independent Research (PSY4910) and Independent Study (PSY 4990).

**Related courses: 18 hours**

No specific related courses are required; however, related courses should be chosen in a careful manner, in consultation with the undergraduate adviser. These courses are to be taken outside the department.

- a. At least 9 hours must be courses numbered 3000 or higher.
- b. A minor in another department may be used to complete the related course requirement, with the adviser's approval.

**Requirements for Honors in Psychology**

**A. Admission:** Psychology majors in the preprofessional track are encouraged to earn the graduation citation "Honors in Psychology" through the department of psychology Honors program. A student must be admitted no later than the end of the first semester of the junior year. In addition, the following criteria must be met for admission to the program:

- 1. An overall GPA of 3.0 or higher.
- 2. A GPA in psychology courses of 3.4 or higher.
- 3. Either (a) good standing in the College Honors program, (b) recommendation by two department faculty members or (c) successful application. Contact the Department Honors adviser for application information.

**B. Requirements for Graduation with Honors in Psychology:** Honors students must meet all requirements for the preprofessional track, described above, except the advanced research course

requirement. In addition, one Psychology Honors Conference (PSY 4800, 4 hours) and all of the following courses are required: Honors Proposal (PSY 3800, 3 hours), Honors Research (PSY 3910, 3 hours), Honors Thesis (PSY 4960, 2-3 hours) and Honors Meeting (PSY 3820 and 4820, 3 hours, as scheduled by the Department Honors adviser). The final GPA in all psychology courses must be 3.4 or higher.

**Requirements for the Minor in Psychology**

Students electing to pursue a minor in the department of psychology must complete a minimum of 21 semester hours of course work: 12 hours of basic courses in psychology and an additional 9 hours of advanced psychology courses. Each program must be approved by a department adviser. A minimum GPA of 2.0 must be achieved in courses within the minor; courses in the minor may not be taken as P/NC.

**Basic psychology courses: 12 hours.**

With the approval of a department adviser, the student must select four of the following:

PSY 2200 Abnormal Psychology  
 PSY 2400 Cognitive Psychology  
 PSY 2500 Developmental Psychology **or**  
 PSY 2510 Lifespan Developmental Psychology  
 PSY 2600 Psychobiology  
 PSY 2700 Social Psychology

**Advanced courses: 9 hours**

With the approval of a department adviser, the student must select 9 hours of Psychology courses numbered 3000-4990. No more than a total of 4 hours of Research Practicum (PSY 4100), Independent Study (PSY 4990) and Independent Research (PSY 4910) may be included.

**Sociology**

(ADMINISTERED BY THE DEPARTMENT OF SOCIOLOGY AND ANTHROPOLOGY)

*Barbara K. Chesney, chair*  
*Mary Louise Glen, undergraduate adviser and Honors adviser*

**Degrees Offered**

The sociology program offers a bachelor of arts degree.

**Requirements for the Undergraduate Major in Sociology**

The undergraduate major of 33 hours must include the following:  
 SOC 3270 Social Research Methods ..... 3  
 SOC 3290 Social Statistics ..... 3  
 SOC 4040 Classical Theory ..... 3  
*24 additional elective hours of sociology courses, at least 15 of which must be at the 3000 or 4000 level.*

Students should discuss their personal and professional interests with the undergraduate adviser before selecting elective courses to complete the major.

**Related Hours**

The requirement of 18 related hours is met with electives taken from at least four of the following disciplines: Africana Studies, anthropology, economics, geography, history, political science, psychology and Women's and Gender Studies. Fifteen (15) of these hours must be taken

at the 3000 or 4000 level. Students may not take P/NC in major or related courses.

## Undergraduate Minor in Sociology

Requirements for the undergraduate minor must include 21 hours configured as follows:

SOC 3270 Social Research Methods .....	3
SOC 3290 Social Statistics .....	3
SOC 4040 Classical Theory .....	3

12 additional elective hours of sociology courses selected at the 3000 or 4000 level.

## Honors in Sociology

Qualified juniors and seniors may apply to work for Honors in sociology. The following are requirements for entrance into the Honors program in sociology:

### A. Admission:

1. 3.3 minimum GPA in sociology courses
2. 3.0 minimum cumulative GPA
3. 12 hours completed in sociology
4. Qualification as a sociology major

**B. Requirements:** A student must complete 9 hours of independent work in sociology. During the final semester before graduation, the student must complete an Honors paper. The Honors topic and paper are to be developed in close conjunction with a faculty adviser. Students should discuss their special interests with faculty members or with the Honors adviser who will help identify an appropriate faculty member to guide the Honors work.

## Department of Theatre and Film

*James S. Hill, chair*

*Stephen Berwind, adviser for theatre studies, Honors and minors*

*Tammy Kinsey, film adviser*

*Elsbeth kydd, film adviser*

*Holly Monsos, theatre adviser*

*Jennifer Rockwood, theatre adviser*

## Degrees Offered

Two baccalaureate programs are offered in theatre and film: the bachelor of arts and bachelor of fine arts. In addition, three minors are offered: 1) theatre, 2) film and 3) history and criticism of drama. Certification in drama/theatre for majors in elementary or secondary education is offered through the College of Education. Consult both the College of Education and theatre advisers about this certification.

The bachelor of arts programs in theatre or film are designed to prepare the student for a wide range of career options and/or postgraduate study through a strong liberal arts curriculum. Students may choose a bachelor of arts major in theatre or film. Theatre majors may pursue additional concentrations in performance, design/technology or theatre studies after completing the basic requirements of 35 hours in the major.

The bachelor of fine arts in theatre performance program is oriented toward intensive study in theatre performance. Within a liberal arts curriculum, the program stresses training in acting and directing for the student whose goal is postgraduate professional study and/or a career in

performance. Admission to the B.F.A. program is by audition and requires at least one semester of residency. Please see a department adviser for details on the process.

## General Guidelines for the Bachelor of Arts

No more than 50 hours in the major courses are allowed for the bachelor of arts major. Hours over 50 will not count toward the degree.

A student majoring in theatre or film may petition to substitute a comparable course or courses for one or more of the required courses in the major. Such requests should be made in writing to the department chair and are subject to approval by the department faculty.

The requirement of 18 hours in related courses must be met with courses chosen from other departments in the college in consultation with the departmental adviser. Related courses must be chosen from courses acceptable for major credit.

The P/NC option is available to theatre and film majors in the areas of the major.

## Requirements for the Bachelor of Arts Programs

### Film/Video

A minimum of 35 hours in film/video to include the following:

#### Take the following (12 hours):

FILM 2310 Film I .....	3
FILM 2320 Video I .....	3
FILM 2340 Critical Approaches to Cinema Studies .....	3
FILM 2350 Cinema History .....	3

#### Select 3 hours from:

FILM 3410 European Cinema .....	3
FILM 3420 Third Cinema .....	3

#### Select 3 hours from:

FILM 3370 Documentary Film .....	3
FILM 3380 Experimental Film .....	3
FILM 3390 History of Video Art .....	3

#### Select 7 hours from:

FILM 3310 Film II .....	4
FILM 3320 Video II .....	4
FILM 3350 Screenwriting .....	3
FILM 3360 Production Topic .....	4
FILM 3730 Directing for Camera .....	3
FILM 4320 Film/Video Workshop .....	4
FILM 4350 Screenwriting 2 .....	3

#### Take 10 hours of film electives.

## Honors in Film/Video

Qualified juniors and seniors may apply to work for Honors in film/video. The following are requirements for entrance into the Honors program in film/video:

### A. Admission:

1. 3.3 minimum GPA in film/video courses
2. 3.0 minimum cumulative GPA
3. 12 hours completed in film/video

**B. Requirements:**

A student must have completed 9 hours of honors course work in film/video before beginning the thesis project. The honors topic and project are to be developed in close conjunction with an Honors faculty adviser. A student may enroll for the thesis paper in FILM 4950 Honors Thesis for a maximum of 6 hours of credit. The designation “Honors” on the diploma will be given to students who receive a grade of A on the Honors thesis and maintain a 3.3 GPA in film/video.

**Theatre**

A minimum of 35 hours in theatre to include the following:

**Choose 3 hours from:**

THR 1040	Stage Lighting and Sound	.....	3
THR 1050	Stage Costuming	.....	3

**Take the following:**

THR 1030	Stagecraft	.....	3
THR 2200	Perspectives on Theatre	.....	3
THR 2610	Acting I	.....	4
*THR 2640	Voice and Movement	.....	2
THR 3110	World Theatre I	.....	3
THR 3120	World Theatre II	.....	3
THR 3710	Directing	.....	3
THR 4110	Modern American Theatre	.....	3

**Choose two courses not to exceed 6 hours:**

*THR 3800	Production Acting	.....	1-3
*THR 3810	Production Management	.....	1-3
*THR 3820	Set Construction	.....	1-3
*THR 3830	Costume Construction	.....	1-3
*THR 3840	Production Sound	.....	1-3
*THR 3850	Production Lighting	.....	1-3
*THR 3860	Production Designer	.....	1-3

\* May be taken more than once

**Take any additional theatre electives that will reach the required 35 minimum hours for the major.**

**Concentrations:** Students pursuing a B.A. in theatre also may complete an optional concentration in performance, design/technology or theatre studies by taking an additional 12 hours as follows:

**Performance:** Take 12 hours from THR 2620, 2630, 3610, 3640, 3650, 4620, 4640, 4990

**Design/technology:** Take 12 hours from THR 3410, 3440, 3480, 4400, 4990.

**Theatre studies:** Take 12 hours including special topics in theatre and drama in consultation with the coordinator/adviser of theatre studies.

**Honors in Theatre**

Qualified juniors and seniors may apply to work for Honors in theatre. The following are requirements for entrance into the Honors program in theatre:

**A. Admission**

- a. 3.3 minimum GPA in theatre courses
- b. 3.0 minimum cumulative GPA
- c. 12 hours completed in theatre

**B. Requirements:**

A student must have completed a minimum of 9 hours of Honors course work in theatre before beginning the thesis project. The Honors topic and paper are to be developed in close conjunction

with an Honors faculty adviser. A student may enroll for the thesis paper in THR 4950 Honors Thesis for a maximum of six hours of credit. The designation “Honors” on the diploma will be given to students who receive a grade of A on the Honors thesis and maintain a 3.3 GPA in theatre.

**Requirements for the Bachelor of Fine Arts**

The B.F.A. degree requires 60 hours in theatre. Credit hours taken in the major over 67 will not count toward the degree. The credit hours are to be divided as follows:

**Choose 3 hours from:**

THR 1040	Stage Lighting and Sound	.....	3
THR 1050	Stage Costuming	.....	3

**Take the following:**

THR 1030	Stagecraft	.....	3
THR 2200	Perspectives on Theatre	.....	3
THR 3110	World Theatre I	.....	3
THR 3120	World Theatre II	.....	3
THR 4110	Modern American Theatre	.....	3

**Choose two courses (not to exceed 6 hrs):**

THR 3800	*Production Acting	.....	1-3
THR 3810	*Production Management	.....	1-3
THR 3820	*Set Construction	.....	1-3
THR 3830	*Costume Construction	.....	1-3
THR 3840	*Production Sound	.....	1-3
THR 3850	*Production Lighting	.....	1-3
THR 3860	*Production Designer	.....	1-3

**Take 25 hours of the following:**

THR 2610	Acting I	.....	4
THR 2620	Acting II	.....	4
THR 2630	Acting: Contemporary Styles	.....	3
THR 2640	*Voice and Movement	.....	2
THR 3710	*Directing	.....	3
THR 4800	Senior Project	.....	4

**Take an additional 11-15 hours from these courses:**

THR 2420	Makeup for the Actor	.....	2
THR 2990	*Independent Study	.....	1-3
THR 3610	Acting for the Camera	.....	3
THR 3640	Voice and Diction	.....	2
THR 3650	Stage Movement	.....	2
THR 4620	Acting: Historical Styles	.....	3
THR 4640	Dialects for Stage	.....	2
THR 4990	*Special Projects	.....	1-3

\* May be taken more than once

A student majoring in theatre may petition to substitute a comparable course or courses for one or more of the required courses in the major. Such requests should be made in writing to the department chair and are subject to approval by the department faculty.

The requirement of 18 hours in related courses must be met with courses chosen from other departments in the college in consultation with the departmental adviser. Related courses must be chosen from courses acceptable for major credit.

The PS/NC option is available to theatre majors in the areas of the major and related courses.



## General Guidelines for the Bachelor of Fine Arts

The B.F.A. student in performance will follow the procedures outlined below:

### Entrance

**Admission to the B.F.A. degree program in theatre performance requires:**

1. A letter of application requesting admission to the program and stating the intention to pursue a specific course of study in performance.
2. An interview with the B.F.A. faculty and staff.
3. An audition and at least one semester of residency. For details concerning the audition, please see an adviser in the performance program.

Applications must be made no later than the end of the sophomore year.

### Continuance

A review of all B.F.A. students will be conducted each spring term. This will be an opportunity for all faculty and students to observe the work and progress of the B.F.A. student. This review will require an interview and presentation of scenes and/or audition pieces.

Students in the B.F.A. program will be expected to participate each semester in some aspect of production. As part of the interview process, students should be able to demonstrate their commitment to professional training. Performance majors will be expected to audition for all major productions.

A student will be assigned a B.F.A. adviser and will be required to see the adviser once each semester at a minimum. This should be done during advance registration, even if the student does not intend to register in advance.

### Exit Procedure

In the spring of the junior year, the B.F.A. student should determine with his/her adviser the content of the Senior Project, THR 4800. This planning is to allow scheduling of production responsibilities for the following year.

## Requirements for the Minors

A minimum of 21 hours is required for minors in theatre and film, as follows for each minor:

### Theatre Minor

**Choose 6 hours from:**

THR	1030	Stagecraft	3
THR	1040	Stage Lighting and Sound	3
THR	1050	Stage Costuming	3

**Choose 12 hours from:**

THR	2200	Perspectives on Theatre	3
THR	2610	Acting I	4
THR	2640	Voice and Movement	2
THR	3110	World Theatre I	3
THR	3120	World Theatre II	3
THR	4110	Modern American Theatre	3

## History and Criticism of Drama Minor

**Take the following (9 hours):**

THR	3110	World Theatre I	3
THR	3120	World Theatre II	3
ENGL	3810	Shakespeare	3

**Choose 12 hours from the following:**

THR	4110	Modern American Theatre	3
ENGL	4310	British Drama	3
ENGL	4340	Modern Drama	3
THR	4900*	Special Topics: Theatre and Drama	3

\* THR 4900 may be taken more than once.

## Film/Video Minor

**Take the following (12 hours):**

FILM	2310	Film I	3
FILM	2320	Video I	3
FILM	2340	Critical Approaches to Cinema Studies	3
FILM	2350	Cinema History	3

**Choose 1 or 2 courses from studies:**

FILM	2980*	3370, 3380, 3390, 3410, 3420, 3980*, 4340, 4360, 4370*	
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**Choose 1 or 2 courses from production:**

FILM	3310, 3320, 3350, 3360*, 3730, 4320*, 4350.	
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\*May be taken more than once.

## Cinema Studies Minor

**Take the following (6 hours):**

FILM	2340	Critical Approaches to Cinema Studies	3
FILM	2350	Cinema History	3

**Choose 1 course from:**

FILM	3410	European Cinema	3
FILM	3420	Third Cinema	3

**Choose 1 course from:**

FILM	3370	Documentary Film	3
FILM	3380	Experimental Film	3
FILM	3390	History of Video Art	3

**Choose 1 course from:**

FILM	2310	Film I	3
FILM	2320	Video I	3
FILM	3350	Screenwriting	4

**Take 6 hours of film electives.**

Students also may substitute courses in drama in a foreign language — i.e., in classics, French, Spanish, German, etc. — with the approval of the minor coordinator.

## Urban Studies

(THIS PROGRAM IS AN INTERDISCIPLINARY MAJOR.)

*Carter Wilson, adviser*

## Degrees Offered

The Urban Studies program offers a bachelor of arts degree.

## Degree Requirements

The Urban Studies program, totaling 48 credit hours, is an interdepartmental major with emphasis on urban-oriented courses in economics, geography, history, political science and sociology. Its

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purpose is to provide a broadly based educational foundation for understanding the impact and scope of urbanization so that students will be suitably educated to pursue graduate or professional academic programs or to assume positions in urban-related employment.

The following course work is required:

1. One core course from each of the five fields noted above (15 hours): ECON 3600; GEPL 3710; HIST 3270 or 3280; PSC 3310; SOC 2410, 4440 or 4450.
2. Four additional core courses from: (12 hours): ECON 4050; GEPL 4530, 3460; HIST 3250, 3400, 3410; PSC 2300; SOC 3600, 3640, 4340, 4610.
3. One course in statistics (3 hours): ECON 2640, PSC 3110 or SOC 3290.
4. Courses in fields related to Urban Studies (18 hours), chosen in consultation with adviser.

## Department of Women's and Gender Studies

*Jamie Barlowe, chair and adviser*

*Patricia Groves, adviser*

### Degrees Offered

The department of women's and gender studies offers a baccalaureate program for a bachelor of arts focused on an interdisciplinary major and minor or dual major. In addition to taking the core classes, students work with an adviser to shape a cohesive yet multifaceted program of study to suit individual interest and career goal. Majors are exposed to interdisciplinary knowledge, methodologies and practices, as well as those originating from specific disciplines.

### About the Program

Women's and gender studies is an interdisciplinary field of study focused on the contributions, experiences, history and issues of women, both nationally and internationally. It also examines the significance and consequences of gender as a cultural category that shapes the experiences and knowledge of individuals and communities. Women's and gender studies is grounded in feminist and gender theories that reconceptualize and recontextualize ideas, experience, knowledge and knowledge production, as well as allow for in-depth exploration of the sociocultural, economic and political implications of gender, race, class and power relations — past, present and cross-culturally.

Participating departments include:

Africana Studies	History
Anthropology	Law
Art/Art History	Music
Economics	Philosophy
English	Political Science
Film	Psychology
French	Sociology/Anthropology
Geography and Planning	Spanish
German	Theatre
Health Education	Foundations and Research

Because this field is constantly expanding, new courses may be added that do not appear in the catalog. Students should consult the Schedule of Classes and/or the department office each semester for up-to-date information.

## Requirements for the Undergraduate Major

*Note that Women's and Gender Studies courses may be used to satisfy the Arts and Sciences distributive requirements in either humanities or social sciences, depending upon the area of concentration.*

The total of 31 hours (28 for dual majors) required for the major in Women's and Gender Studies must include:

### Women's and Gender Studies core requirements (16 hours)

WGST 3010 Issues in Women's Studies  
WGST 4870 Feminist Theory (other options are sometimes offered)  
WGST 4890 Women's Studies Research and Methodologies  
WGST 4900 Senior Seminar  
Women's Studies Praxis (internship, externship, job experience, etc.)

### Women's and Gender Studies major electives (15 hours — 12 hours for students with double major)

Women's and gender studies courses at the 3000 level and above or courses in other departments or programs at the 3000 level and above must be approved by the faculty adviser and department chair.

### Related Hours

A concentration, minor or second major in another discipline is strongly recommended. If the related hours are not concentrated in a single discipline, at least 12 hours must be at the 3000 level or above and provide knowledge of the structure and methods of at least one discipline other than women's and gender studies. Courses cross-listed as women's and gender studies may be used to fulfill this requirement, but may not double-count for the major. Must be planned in consultation with the adviser.

### Undergraduate Research

Research is a required component of this major. Students may participate in ongoing undergraduate interdisciplinary research projects such as eating disorders, curriculum for girls and women, race, class issues, sexuality, abuse/violence against women, and welfare and work. Individual projects also are encouraged. Students may pursue these through the required WGST 4890 Women's Studies Research and Methods class or with the consent of the program director and faculty adviser.

## Requirements for the Undergraduate Minor

The total of 22 hours required for the minor in women's and gender studies must include:

### Women's and Gender Studies core requirements:

WGST 3010 Issues in Women's Studies  
WGST 4870 Feminist Theory (other options are sometimes offered)  
WGST 4890 Women's Studies Research and Methodologies

### Women's and Gender Studies electives (12 hours)

Women's and gender studies courses at the 3000 level and above or courses from other departments and programs at the 3000 level and above approved by the faculty adviser and department chair.

# College of Arts and Sciences Faculty

## Department of Art

**Linda Ames-Bell**, 1978, professor  
B.Ed., The University of Toledo; M.F.A., Wayne State University

**Diana Attie**, 1962, professor  
B.S., M.A., Cleveland Institute of Art; Case Western Reserve University

**Katherina Danko-McGhee**, 2000, associate professor  
B.A., West Virginia Wesleyan College; M.A., Indiana State University;  
Ph.D., The Ohio State University

**Debra Davis**, 2000, associate professor  
B.A., M.S. Ed., Northern Illinois University; M.F.A., University of Colorado

**Rex Fogt**, 1972, professor  
B.A., Bluffton College; M.F.A., University of Michigan

**Marc S. Gerstein**, 1980, professor  
B.A., Brandeis University; M.A., Ph.D., Harvard University

**David H. Guip**, 1972, professor and chair  
B.S., B.F.A., M.Ed., Wayne State University; Ed.D., Ball State University

**Thomas Lingeman**, 1979, professor  
B.S., Ball State University; M.F.A., Southern Illinois University of Art

**Joel A. Lipman**, 1975, professor, joint appointment with department of English  
B.S., J.D., University of Wisconsin; M.A., State University of New York - Buffalo

**Barbara W. F. Miner**, 2000, assistant professor  
B.F.A., State University of New York - New Paltz; M.F.A., Eastern Michigan University

**Deborah Orloff**, 1994, associate professor  
B.F.A., Clark University; M.F.A., Syracuse University

**Peter Patchen**, 1993, associate professor  
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**Richard Putney**, 1979, associate professor  
B.A., M.A., Ph.D., University of Delaware

**Mysoon Rizk**, 2000, assistant professor  
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**Arturo Rodriguez**, 2001, assistant professor  
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## EMERITUS FACULTY

**Duane Bastian**, 1971, professor emeritus, 1999  
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**Peter Elloian**, 1966, professor emeritus, 2001  
B.F.A., Cleveland Institute of Art; M.F.A., University of Iowa

## Department of Biological Sciences

**Brian P. Ashburner**, 2001, assistant professor  
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**William L. Bischoff Jr.**, 1972, associate professor and vice provost for undergraduate education  
B.A., M.A., Miami University; Ph.D., University of North Carolina

**Charles Creutz**, 1973, associate professor  
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**Ernest F. DuBrul**, 1974, associate professor  
H.A.B., Xavier University; Ph.D., Washington University

**Alan G. Goodridge**, 2002, professor, provost and vice president for academic affairs  
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**John Gray**, 1998, assistant professor  
B.Sc. (Hons), University College Cork; Ph.D., Purdue University

**Patricia R. Komuniecki**, 1985, professor and chair  
B.A., Newton College (Boston College); M.A., Mount Holyoke College; Ph.D., University of Massachusetts

**Richard W. Komuniecki**, 1980, Distinguished University Professor  
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**Douglas W. Leaman**, 2001, associate professor  
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**Scott M. Leisner**, 1993, associate professor  
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**John Plenefisch**, 1996, associate professor  
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**Donald B. Pribor**, 1965, professor  
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**Anthony Quinn**, 2001, associate professor  
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## Department of Communication

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**Bernice C. Marti**, 1969, professor, 1983  
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## Department of Earth, Ecological and Environmental Sciences

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