

# COLLEGE OF ARTS AND SCIENCES

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## Office of the Dean

### Sue Ott Rowlands, interim dean

University Hall Room 3160  
sue.ottrowlands@utoledo.edu

Phone: 419.530.7842  
Fax: 419.530.2157

### Marietta Morrissey, associate dean for the social sciences

University Hall Room 3160  
marietta.morrissey@utoledo.edu

Phone: 419.530.7845  
Fax: 419.530.2157

### Constantine E. Theodosiou, associate dean for the natural sciences and mathematics

University Hall Room 3160  
constantine.theodosiou@utoledo.edu

Phone: 419.530.5146  
Fax: 419.530.2157

### Debra Stoudt, interim associate dean for the arts and humanities

University Hall Room 3160  
debra.stoudt@utoledo.edu

Phone: 419.530.5146  
Fax: 419.530.2157

### Christine Habrecht, assistant dean and director of student services

University Hall Room 3000  
christine.habrecht@utoledo.edu

Phone: 419.530.2671  
Fax: 419.530.2507

### Eve Crandall, transfer and college adviser

University Hall Room 3000  
eve.crandall@utoledo.edu

Phone: 419.530.2671  
Fax: 419.530.2507

### John Klear, graduation and college adviser

University Hall Room 3000  
john.klear@utoledo.edu

Phone: 419.530.2671  
Fax: 419.530.2507

### Melanie Dusseau, general studies and college adviser

University Hall Room 3000  
melanie.dusseau@utoledo.edu

Phone: 419.530.8568  
Fax: 419.530.2507

### Sharon Schnarre, premed/predent/prevet adviser

University Hall Room 3000  
sharon.schnarre@utoledo.edu

Phone: 419.530.2671  
Fax: 419.530.2507

## Academic Departments

### Department of Art

#### David Guip, chair

Center for the Visual Arts Room 107  
david.guip@utoledo.edu

Phone: 419.530.8300  
Fax: 419.530.8337

### Department of Biological Sciences

#### Patricia R. Komuniecki, chair

Bowman-Oddy Laboratories Room 1025  
pkomuni@utnet.utoledo.edu

Phone: 419.530.2065  
Fax: 419.530.7737

### Department of Chemistry

#### A. Alan Pinkerton, chair

Bowman-Oddy Laboratories Room 2024  
apinker@uoft02.utoledo.edu

Phone: 419.530.2109  
Fax: 419.530.4033

### Department of Communication

#### James Benjamin, chair

University Hall Room 4660  
james.benjamin@utoledo.edu

Phone: 419.530.2005  
Fax: 419.530.4771

### Department of Earth, Ecological and Environmental Sciences

#### Michael Phillips, chair

Bowman-Oddy Laboratories Room 3042  
michael.phillips@utoledo.edu

Phone: 419.530.2009  
Fax: 419.530.4421

### Department of Economics

#### Michael Dowd, chair

University Hall Room 4110C  
michael.dowd@utoledo.edu

Phone: 419.530.2572  
Fax: 419.530.7844

### Department of English

#### Sara Lundquist, chair

University Hall Room 5040  
sara.lundquist@utoledo.edu

Phone: 419.530.2318  
Fax: 419.530.4440

### Department of Foreign Languages

#### Antonio Varela, chair

University Hall Room 5230D  
antonio.varela@utoledo.edu

Phone: 419.530.2606  
Fax: 419.530.4954

### Department of Geography and Planning

#### Peter S. Lindquist, chair

University Hall Room 4340 A  
plindqu@utnet.utoledo.edu

Phone: 419.530.2545  
Fax: 419.530.7919

### Department of History

#### Alfred Cave, interim chair

Tucker Hall Room 1142  
alfred.cave@utoledo.edu

Phone: 419.530.2845  
Fax: 419.530.4539

### Department of Mathematics

#### Geoffrey Martin, chair

University Hall Room 2040  
gmartin@math.utoledo.edu

Phone: 419.530.2568  
Fax: 419.530.4720

## Department of Music

Lee Heritage, chair

Center for Performing Arts Room 2007  
*lee.heritage@utoledo.edu*

Phone: 419.530.2356  
Fax: 419.530.8483

## Department of Philosophy

Eric Snider, chair

Scott Hall Room 1011  
*eric.snider@utoledo.edu*

Phone: 419.530.6190  
Fax: 419.530.6189

## Department of Physics and Astronomy

Alvin D. Compaan, chair

McMaster Hall Room 2017  
*alvin.compaan@utoledo.edu*

Phone: 419.530.2241  
Fax: 419.530.2723

## Department of Political Science and Public Administration

Mark E. Denham, chair

Scott Hall Room 1022  
*mark.denham@utoledo.edu*

Phone: 419.530.4151  
Fax: 419.530.4199

## Department of Psychology

Joseph D. Hovey, chair

University Hall Room 1600  
*joseph.hovey@utoledo.edu*

Phone: 419.530.2717  
Fax: 419.530.8479

## Department of Sociology and Anthropology

Barbara K. Chesney, chair

University Hall Room 2520  
*barbara.chesney@utoledo.edu*

Phone: 419.530.2791  
Fax: 419.530.8406

## Department of Theatre and Film

Holly Monsos, interim chair

Center for Performing Arts Room 1032  
*holly.monsos@utoledo.edu*

Phone: 419.530.2202  
Fax: 419.530.8439

## Department of Women's and Gender Studies

Jamie Barlowe, interim chair

University Hall Room 4260A  
*jamie.barlowea@utoledo.edu*

Phone: 419.530.2233  
Fax: 419.530.4411

## Programs and Centers

### Africana Studies

Abdul Alkalimat, director

University Hall Room 2370  
*aalkali@utnet.utoledo.edu*

Phone: 419.530.7252  
Fax: 419.530.4739

### American Studies

James Campbell, director

Scott Hall Room 3015  
*james.campbell@utoledo.edu*

Phone: 419.530.4521  
Fax: 419.530.4440

## Disability Studies

Mark Sherry, director

University Hall Room 2100  
*mark.sherry@utoledo.edu*

Phone: 419.530.7245  
Fax: 419.530.7238

## Humanities Institute

Roger D. Ray, director

Scott Hall Room 2002  
*rroy@utnet.utoledo.edu*

Phone: 419.530.2328  
Fax: 419.530.6032

## Instrumentation Center

Jeffrey Dunn, director

Bowman-Oddy Laboratories Room 200  
*jeffrey.dunn@utoledo.edu*

Phone: 419.530.1510  
Fax: 419.530.4033

## Lake Erie Research Center

Carol Stepien, director

6200 Bayshore Road, Oregon, Ohio  
*carol.stepien@utoledo.edu*

Phone: 419.530.8360  
Fax: 419.530.8399

## Law and Social Thought Program

Benjamin Pryor, co-director

Scott Hall 1012  
*Benjamin.pryor@utoledo.edu*

Phone: 419.530.6186  
Fax: 419.530.6189

Jerry Van Hoy, co-director

University Hall 2640  
*Jerry.vanhoy@utoledo.edu*

Phone: 419.530.2807  
Fax: 419.530.8406

## Master of Liberal Studies Program

Lawrence Anderson-Huang, director

Ritter Planetarium Room 105  
*lawrence.anderson@utoledo.edu*

Phone: 419.530.2637  
Fax: 419.530.2723

## Ritter Planetarium

Alexander Mak, associate director

Ritter Planetarium Room 31  
*alexander.mak@utoledo.edu*

Phone: 419.530.4650  
Fax: 419.530.2723

## Stranahan Arboretum

4131 Tantara Drive

Phone: 419.530.6151  
Fax: 419.841.0063

## Writing Center

Barbara Schneider, director

Carlson Library Room 1005  
*barbara.schneider@utoledo.edu*

Phone: 419.530.4939  
Fax: 419.530.4752

# COLLEGE OF ARTS AND SCIENCES

## Degrees Offered

### Departmental Majors

Anthropology (B.A.)  
 Art (B.A., B.F.A. *with concentrations in ceramics, drawing, metals, new media, painting, printmaking and sculpture*)  
 Art history (B.A.)  
 Astronomy (B.A.)  
 Biology (B.S. *with optional concentration in ecology and organismal biology*)  
 Chemistry (B.A. *with optional biochemistry concentration or B.S.*)  
 Communication (B.A.)  
 Economics (B.A.)  
 English (B.A. *with concentrations in general 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.)  
 Linguistics (B.A.)  
 History (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, organ, guitar, string, wind and percussion, instrumental jazz, and vocal jazz*)  
 Philosophy (B.A.)  
 Physics (B.S. *with concentrations in astrophysics and applied physics available; B.A.*)  
 Political science (B.A. *with specializations in public administration and legal studies available*)  
 Psychology  
 Religious Studies (B.A.)  
 Sociology (B.A.)  
 Spanish (B.A.)  
 Theatre (B.A. *with theatre concentrations in performance, design tech and theatre studies available*)  
 Women's and gender studies (B.A. *with optional concentration in law and social thought*)

### 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.)  
 Global Studies (B.A.)  
 Humanities (B.A.)  
 Latin American studies (B.A.)  
 Law and social thought (B.A. *with optional concentrations in disability studies and women's and gender studies*)  
 Medieval and Renaissance studies (B.A.)  
 Middle East studies (B.A.)

Paralegal studies and prelaw (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.

Interdepartmental (B.S. *with optional concentration in geophysics*)

### Minors

Africana studies  
 Anthropology  
 Art  
 Art history  
 Astrophysics  
 Biology  
 Business administration\* (*four minors available*)  
 Chemistry  
 Classics  
 Communication  
 Computer science and engineering\*\*  
 Disability studies (*interdisciplinary*)  
 Economics  
 English (*literature, writing*)  
 Environmental sciences  
 Film (*film/video, cinema studies*)  
 French (*two minors, one in applied*)  
 German (*two minors, one in applied*)  
 Geography  
 Geology  
 Global studies  
 History  
 Japanese  
 Latin American studies  
 Law and social thought  
 Linguistics  
 Mathematics  
 Music (*music theory, music history and literature, jazz, instrumental, vocal, keyboard and music business and recording arts*)  
 Philosophy  
 Physics  
 Political science  
 Psychology  
 Public administration  
 Religious studies  
 Social informatics  
 Sociology  
 Spanish  
 Theatre (*theatre, history and criticism of drama*)  
 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.

\*\*Students interested in pursuing a minor in computer science and engineering should consult with an adviser in the department of electrical engineering and computer science in the College of Engineering.

## 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 College of Arts and Sciences course work, unless the student's major department requires course work outside the college to satisfy major or related requirements.

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 (i.e. with a cumulative GPA of 2.0 or higher) 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, distributive, 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 and 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 Admis-

sion 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 a minimum GPA of 2.0 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 to 4000 levels; of these, a minimum of 32 hours must be taken at the 3000 to 4000 levels. 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 six 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

### 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 or higher) 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 at least 1140) and a minimum high school GPA of 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 completed at least 15, but not more than 60, graded semester hours of college work, and 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 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. Advising can be much more than selecting courses. The more frequently students arrange to meet with their advisers, the better their needs can be served.

New students, as well as transfer and continuing general studies students, are advised in the College of Arts and Sciences Student Services Office, University Hall Room 3000, by college staff advisers. They provide essential information; help students select courses to meet University core and college distributive requirements; suggest courses for the exploration of majors and minors; and help students evaluate academic progress and adjustment to university life. Students with declared majors and/or minors are advised by departmental major advisers, faculty who provide general as well as more specialized information about majors and minor programs, departmental course offerings, and career and graduate opportunities. They help students select courses for major, related, and other requirements. Students in the Honors Program and those seeking more than one major or degree, a minor, or admission to professional school should meet periodically with one or more additional advisers.

## Student Responsibilities

Students are responsible for correctly selecting courses for their programs of study each semester and for fulfilling all degree requirements. Although

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advisers will assist wherever possible, the final responsibility rests with the student. 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 responsible for the requirements in the University catalog under which they reenter.

### Transcripts and Degree Audit Reports

A transcript is a complete chronological list of a student's academic course work (including all courses attempted and grades earned). It does not show how specific courses apply or do not apply to University and college requirements as stipulated in this catalog. For example, developmental, excess technical, non-repeatable and certain other courses are not counted toward minimum credits for degrees, but appear on transcripts.

The Degree Audit Report (DAR) details all requirements applicable to a student's academic program (degree, major, minor) and applies the student's courses on the transcript (including transfer credit) to those requirements. The DAR should be used to identify requirements remaining when all registered courses are completed.

The College of Arts and Sciences Student Services Office (UH Room 3000) will provide an unofficial transcript and DAR to a College of Arts and Sciences student presenting a picture ID. Students also may view their transcript and DAR through the myUT portal with Student Self-Service.

### 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 ARS 1000 Orientation, College Composition I and II, and any developmental courses required on the basis of placement testing and/or high school deficiencies. Students should consult the later sections of the catalog devoted to programs of study and course offerings, and they should review their programs with their academic advisers to ensure they complete courses in the proper sequences. 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.

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

### GPA Recalculation 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 GPA recalculation 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 to 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 if they fail to make sufficient progress toward attainment of the degree. (See Withdrawal Policy). Students may remove Incompletes while under suspension.

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

- 1.0 for 10 to 19 hours attempted
- 1.5 for 20 to 29 hours attempted
- 1.7 for 30 to 39 hours attempted
- 1.8 for 40 to 49 hours attempted
- 1.9 for 50 to 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)

The College of Arts and Sciences will accept a maximum of 21 semester hours of CLEP through successful completion of the four general examinations. Additional credit may be earned through satisfactory scores on individual subject examinations. Required minimum scores and credits awarded are as follows:

### General Examinations

**Humanities:** For a score of 50, a student will receive six hours credit for College of Arts and Sciences distributive requirements in the humanities.

**College mathematics:** For a score of 65, a student will receive three hours credit for MATH 1180.

**Natural sciences:** For a score of 50, a student will receive six hours credit for College of Arts and Sciences distributive requirements in the natural sciences.

**Social sciences and history:** For a score of 50, a student will receive six hours credit for College of Arts and Sciences distributive requirements in the social sciences.

## Subject Examinations

**American government:** For a score of 50, a student will receive three hours credit for PSC 1200.

**Biology:** For a score of 50, a student will receive three hours credit for BIOL 1120.

**Calculus:** For a score of 65, a student will receive four hours credit for MATH 1850.

**Chemistry:** For a score of 50, a student will receive eight hours credit for CHEM 1230 and CHEM 1240.

**College algebra:** For a score of 65, a student will receive three hours credit for MATH 1320.

**College algebra-trigonometry:** For a score of 65, a student will receive four hours credit for MATH 1340.

**French language:** For a score of 50, a student will receive four hours credit for FREN 1500. For a score of 62, a student will receive seven hours credit for FREN 1500 and FREN 2140.

**German language:** For a score of 50, a student will receive four hours credit for GERM 1500. For a score of 62, a student will receive seven hours credit for GERM 1500 and GERM 2140.

**Human growth and development:** For a score of 50, a student will receive three hours of credit for PSY 2510.

**Introductory psychology:** For a score of 50, a student will receive three hours credit for PSY 1010.

**Principles of macroeconomics:** For a score of 50, a student will receive three hours credit for ECON 1150.

**Principles of microeconomics:** For a score of 50, a student will receive three hours credit for ECON 1200.

**Spanish language:** For a score of 50, a student will receive four hours credit for SPAN 1500. For a score of 66, a student will receive seven hours credit for SPAN 1500 and SPAN 2140.

**Trigonometry:** For a score of 65, a student will receive three hours credit for MATH 1330.

## Advanced Placement Program

Refer to the College of Arts and Sciences programs of study section for specific information on minimum scores and credits awarded for Advanced Placement examinations administered by the College Board Advanced Placement Program.

### 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 College of 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 cumulative grade point average (GPA) of C (that is, a 2.0 GPA on a 4.0 scale), as well as a cumulative GPA of C in the major and minor (optional) at The University of Toledo. Some programs require a higher GPA in the major. The cumulative GPA 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 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.
2. In all baccalaureate programs, a minimum of 64 hours must be taken at the 2000 to 4000 levels; of these a minimum of 32 hours must be taken at the 3000 to 4000 levels.
3. Students are cautioned to make use of their degree audit and review remaining requirements with their adviser before every registration in order to make progress toward completion of their requirements 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 must 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 or choose to take developmental course work will need to complete additional hours.
2. No more than four 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 two hours in skill courses in physical education or recreation courses at the 1000 level will apply toward the degree.
5. No more than two hours in CMHS 3380 or CMHS 3390 (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, College of 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 (including most SKLS courses) and for blanket technical credit not applicable to a student's specific program.

### E. University Core Curriculum Requirements

Students earning baccalaureates in all colleges and programs 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). Some colleges and programs require courses in these areas above those required to fulfill University Core requirements. Students should contact their academic department or college office 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 College of Arts and Sciences requirement) – 6 hours. Students must pass Composition I (or Composition I with Workshop, see below) and Composition 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; three 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 or 1150) – 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 or 1150) – 3 hours**  
*Composition II (A maximum of three hours of ENGL 1020 and ENGL 1120 will count toward the degree.)*
2. **Mathematics 1180** (UT core and College of Arts and Sciences requirement) – 3 hours (may replace with any mathematics course greater than MATH 1180, except MATH 2280).
3. **Foreign Languages** (College of 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 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 UT Core Curriculum and College of Arts and Sciences requirements by taking the minimum required hours. A student may take no more than two courses (or two courses and one 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 six hours; College of Arts and Sciences requires nine to 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, 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 as follows: ARTH 1500; CLC 1010; COMM 1010, 2000; ENGL 2710, 2720, 2730, 2740 and 2760; FILM 1310; FREN 1080 and 1090; GERM 1080 and 1090; HIST 1000 through 1200; HUM 1010, 1200, 2220, 2010 and 2020; JAPN 1080 and 1090; MUS 2200, 2210, 2220, 2240, 2250 and 2420; PHIL 1010, 1020, 2200 and 2400; REL 1220 and 2000; SPAN 1080, 1090 and 1100; and THR 1010 and 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; College of 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 six hours in two natural sciences departments other than mathematics.

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Students may select courses from astronomy, biology, chemistry, geology, mathematics and physics. Among the courses with minimal or no prerequisites are as follows: ASTR 1010, 2010, 2020 and 2050; BIOL 1120, 1140, 1150, 1340, 2010 and 2020; CHEM 1100 and 1150; EEES 1010, 1020, 1030, 1040, 1050, 1130, 1140 and 1160; BUAD 1020; and PHYS 1050, 1300, 1310, 1320, 1330 and 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 six hours; Arts and Sciences requirement is three courses for nine hours).

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

Students may select courses from anthropology, economics, geography, political science, psychology, and sociology. Among the courses with minimal or no prerequisites areas follows: ANTH 1020 and 2020; ECON 1010, 1150 and 1200; GEPL 1010 and 1100; PSC 1200, 1400 and 1710; PSY 1010; and SOC 1010 and

### 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. Students in the Honors Program will complete HON 1010 and 1020 to meet the Composition I and II requirement.

After completing Composition I and II (or HON 1010 and HON 1020 for Honors Program students) 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, who 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" in the College of 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" in the College of 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 College of 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 a College of 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 College of 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 minors should consult with their primary program advisers and then with an adviser in the Arts and Sciences college office. Not all minors can be added to all degree programs. 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. No more than six hours of courses taken for minor credit may be applied to the total College of Arts and Sciences distributive requirements. A minimum GPA of 2.0 is required in the minor. Students must complete a minimum of 21 hours for a minor; at least nine 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 a minimum high school cumulative GPA of 3.0 or a minimum ACT composite score of 25 (or minimum 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 a College of 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/predental 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 premedical/predental 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 premedical/predental 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 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 College of 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)

*William M. Leons, director of anthropology, honors adviser*

*Angela M. Siner, undergraduate 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:

- a. ANTH 2000, 2700, 2750, 2800, 3850, 4000 and 4760;
- b. 15 hours of electives in anthropology. Courses in the subfields of anthropology not listed in the catalog can sometimes be arranged 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; and six 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 six hours of advanced course work at the 3000 to 4000 levels in anthropology.

**Core courses** – The following 12 hours comprise the core courses for the minor:

|           |                          |
|-----------|--------------------------|
| ANTH 2700 | Human Evolution          |
| ANTH 2800 | Cultural Anthropology    |
| ANTH 4760 | Medical Anthropology     |
| ANTH 3850 | Peoples of the World     |
| or        |                          |
| ANTH 3920 | Indians of North America |

**Advanced courses** – With the approval of the departmental adviser, select nine hours of course work at the 3000 to 4000 levels 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 nine 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 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 valid UT student parking permits.

## Advanced Placement

### A. Art History

For entering students who have taken the Advanced Placement (AP) test in art history, the art history program of the department of art will award credit as follows:

| Score | Course(s)                     | Credit |
|-------|-------------------------------|--------|
| 3     | ARTH 1500                     | 3      |
| 4     | ARTH 1500<br>and<br>ARTH 2980 | 3      |
|       | <b>Total</b>                  | 6      |
| 5     | ARTH 1500<br>and<br>ARTH 2980 | 3      |
|       | <b>Total</b>                  | 9      |

*And a waiver for the requirement of ARTH 2000, 2020, 2040 and 2080 for art history majors.*

### B. Studio Art

For entering students who have taken the Advanced Placement portfolio exams in studio art, the studio art program of the department of art will award credit as follows:

*Studio Art – Drawing*

| Score  | Course(s) | Credit |
|--------|-----------|--------|
| 4 or 5 | ART 1080  | 3      |

*Studio Art – 2-D Design*

|        |          |   |
|--------|----------|---|
| 4 or 5 | ART 2050 | 3 |
|--------|----------|---|

*Studio Art – 3-D Design*

|        |          |   |
|--------|----------|---|
| 4 or 5 | ART 2060 | 3 |
|--------|----------|---|

## 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 section 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 45 hours, 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 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 student must fulfill all requirements listed above. In addition, the student must maintain an overall GPA of 3.0 and a GPA of 3.5 in the major. In addition to the major requirement for 33 hours in art history courses, the honors student must complete two, two-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 five-course survey history of Western art composed of five, three-credit courses – ARTH 2000 Aspects of Ancient Art, ARTH 2020 Aspects of Medieval Art, ARTH 2040 History of Renaissance and

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Baroque Art, ARTH 2080 History of Modern Art, and ARTH 2500 Art Since 1940. 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

*Debra Davis, director of the studio fine art program*

*Linda Ames-Bell, Diana Attie, Debra Davis, Rex Fogt, Thomas Lingeman, 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 student with a solid foundation in art through introductory courses in drawing, design and the history of art, and it offers concentrated study of at least one specialized area of studio fine, art as well as advanced work in art history. Students may choose from the following studio concentrations – drawing, metals, painting, printmaking, sculpture, ceramics, and new media. (Note: New media requirements differ from those of other concentrations. See new media concentration requirements.) The curriculum leading to the B.A. in studio fine art requires a minimum of 45 hours of courses in the major, which must include the following:

- a. Basic Skills Area/Foundations:

|     |      |                              |   |
|-----|------|------------------------------|---|
| ART | 1080 | Foundations Drawing I .....  | 3 |
| ART | 2080 | Foundations Drawing II ..... | 3 |
| ART | 2050 | Foundations 2-D Design ..... | 3 |
| ART | 2060 | Foundations 3-D Design ..... | 3 |
- b. 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.
- c. Eighteen hours of work in studio fine art chosen from one of the following concentrations: ceramics, drawing, metals, painting, print making or sculpture.
- d. Fifteen hours of course work in studio electives, to be selected in consultation with the adviser; 12 of the 15 hours must be in areas outside of the area of concentration.

Students pursuing the B.A. degree may elect (beyond the minimum of 45 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 45 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 either ARTH 2000 or 2020; ARTH 2040; ARTH 2080; ARTH 2500 or 4500; and at least one course in history of non-Western art (such as ARTH 2100, 2200, 3250, 3270, 3300, or a special course devoted to non-Western art). All art history courses must be at the 2000 level or higher. 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 Arts Degree New Media Concentration Requirements

The curriculum leading to the B.A. in studio fine art with the new media concentration requires a minimum of 45 hours of courses in the major, which must include the following:

- a. Basic Skills Area:

Foundations will consist of the following core courses (12 hours):

|     |      |                              |   |
|-----|------|------------------------------|---|
| ART | 1080 | Foundations Drawing I .....  | 3 |
| ART | 2080 | Foundations Drawing II ..... | 3 |
| ART | 2050 | Foundations 2-D.....         | 3 |
| ART | 2060 | Foundations 3-D.....         | 3 |

All students are required to take Foundations 2-D and Foundations 3-D before they enter a major studio area. All students must take Foundations Drawing I before they enter a 3000-level studio art course.

New Media Core (12 hours):

|     |      |                                  |   |
|-----|------|----------------------------------|---|
| ART | 2150 | Digital Art I, Print Media ..... | 3 |
| ART | 2810 | Art Photography .....            | 3 |
| ART | 3150 | Digital Photography .....        | 3 |
| ART | 4850 | Professional Practices .....     | 3 |

- b. 12 hours of course work in new media chosen from the following courses:

ART 2160, ART 3160, ART 3170, ART 3860, ART 3870, ART 4310, ART 4320, ART 4340, ART 4410, ART 4810, and ART 4910 to ART 4990 (new media sections)
- c. Nine hours of course work in studio electives to be selected in consultation with the adviser. Six of the nine hours must be in areas outside of new media.

Students pursuing the B.A. degree with a concentration in new media may elect additional courses in studio fine art (beyond the minimum of 45 hours in the major), provided the total for the major does not exceed 50 hours.

In addition to the 45 hours of course work in new media, 18 hours of related course work also are required, which must be chosen from courses acceptable for major credit, and which must include at least 15 hours in art history, including a non-Western course. Art history courses must include the following:

|      |      |                        |
|------|------|------------------------|
| ARTH | 2080 | Modern Art             |
| ARTH | 3500 | History of Photography |
| ARTH | 3600 | History of New Media   |

It is highly recommended that one of the art history courses be a WAC offering. The remaining hours may be selected from any courses offered in art history.

## 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 student, who is preparing for professional commitment to the field of studio fine art, with a more intense educational experience. Expanding on 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 minor area of studio concentration, studio electives and advanced study of the history of art.

Students entering the B.F.A. program must choose a studio concentration from the following areas: drawing, ceramics, metalsmithing, painting, printmaking, sculpture, and mixed media. (Note: New media B.F.A. degree requirements are different from those of other concentrations. See new media B.F.A. requirements.)

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 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. Students must also present finished work and work in progress to the B.F.A. committee, and have a final B.F.A. exhibition in the senior year. 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.

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 six 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:

- Basic Area: 22 hours composed of 10 hours of drawing (ART 1080, 2080, 3080), and 9 hours of design (ART 2050, ART 2060, plus one course selected from ART 3060 or ART 3070), and ART 4850.
- Major: 23 hours chosen from one of the following studio concentrations: ceramics, drawing, metal smithing, painting, print making and sculpture. As a major, drawing requires 23 hours, in addition to the basic requirements of 10 hours listed above.
- Minor: 12 hours chosen from one of the following studio concentrations: ceramics, drawing, metal smithing, painting, printmaking, new media and sculpture. As a minor, drawing or design requires 12 hours, in addition to the basic requirements of 10 hours in drawing.
- Studio Fine Art Electives: nine hours chosen from three studio areas that differ from those pursued in the basic, major or minor areas.

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 either ARTH 2000 or 2020; ARTH 2040; ARTH 2080; ARTH 2500 or 4500; and at least one course in history of non-Western art (such

as ARTH 2100, 2200, 3250, 3270 and 3300, or a special course devoted to non-Western art). All art history courses must be at the 2000 level or higher. 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.

## B.F.A. Degree New Media Concentration Requirements

The curriculum leading to the B.F.A. in studio fine art with the new media concentration requires a minimum of 66 hours of courses in the major, which must include the following:

- Basic Skills Area:

Foundations will consist of the following core courses (15 hours):

|          |                                   |   |
|----------|-----------------------------------|---|
| ART 1080 | Foundations Drawing I .....       | 3 |
| ART 2080 | Foundations Drawing II .....      | 3 |
| ART 2050 | Foundations 2-D .....             | 3 |
| ART 2060 | Foundations 3-D .....             | 3 |
| ART 3060 | Mixed Media .....                 | 3 |
| or       |                                   |   |
| ART 3070 | Mixed Media or Installation ..... | 3 |

All students are required to take Foundations 2-D and Foundations 3-D before they enter a major studio area. All students must take Foundations Drawing I before they enter a 3000-level studio art course.

New Media Core (15 hours):

|          |                                  |   |
|----------|----------------------------------|---|
| ART 1150 | Digital Art I, Print Media ..... | 3 |
| ART 2810 | Art Photography .....            | 3 |
| ART 3150 | Digital Photography .....        | 3 |
| ART 3860 | Intermediate Photography .....   | 3 |
| ART 4850 | Professional Practices .....     | 3 |

- 21 hours of work in new media chosen from the following courses: ART 2160, ART 3160, ART 3170, ART 3870, ART 4310, ART 4320, ART 4340, ART 4410, ART 4810, and ART 4910 to ART 4990 (new media sections)
- 15 hours of course work in studio electives, to be selected in consultation with the adviser. Six of the 15 hours must be in areas outside of new media.

As a condition of graduation with a B.F.A. degree in new media, candidates must:

- Complete a minimum of two semesters of study in new media after the semester in which the candidate was accepted into the B.F.A. program;
- Present work in progress each semester for departmental B.F.A. review. Candidates whose work is found to be unsatisfactory will not be retained in the B.F.A. program;
- Exhibit, under the supervision of a new media adviser and/or the B.F.A. committee, a body of works executed in new media; and
- Submit 20 slides of exhibited new media work to the department of art.

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In addition to the 66 hours of course work in new media, 18 hours of related course work are required, which must be chosen from courses acceptable for major credit, and which must include at least 15 hours in art history including a non-Western course. Art history courses must include:

|      |      |                        |
|------|------|------------------------|
| ARTH | 2080 | Modern Art             |
| ARTH | 3500 | History of Photography |
| ARTH | 3600 | History of New Media   |

It is highly recommended that one of the art history courses be a WAC offering. The remaining hours may be selected from any courses offered in art history.

Students pursuing the B.F.A. degree may not elect PS/NC option in studio fine art, art history or related courses. Art majors pursuing the B.F.A. degree must meet every semester with their new media advisers.

### Honors in Studio Fine Art B.F.A. Degree

Admission to the B.F.A. program qualifies the student for departmental honors in studio fine art. Honors students must maintain a minimum overall GPA of 3.0 and are subject to annual review by an appropriate committee designated by the studio fine art faculty.

### Honors in Studio Fine Art B.A. Degree

Qualified juniors and seniors may apply to the Honors Program in studio fine art. The following are requirements for entrance into the Honors Program in studio fine art:

#### A. Admission

1. 3.5 minimum GPA in studio fine art
2. 3.3 minimum cumulative GPA
3. 6 hours must be completed in the area of concentration, plus 9 hours of foundations
4. Instructors' permission (areas of concentration: ceramics, painting, drawing, printmaking, sculpture, new media and metals)

#### B. Requirements

A student must have completed a minimum of six hours of honors course work in studio fine art before beginning the thesis project. (Note: This does not include six hours of concentration needed for admission into the Honors Program. Honors course work and thesis topic must be taken over a two-semester period of time.) The honors topic (paper and/or project) is to be developed in close conjunction with an honors faculty adviser. A student may enroll for the thesis topic in ART 4990-091 Special Studies: Honors Thesis for a maximum of for credit hours. The designation "honors" on the diploma will be given to students who receive a grade of A on the honors thesis and maintain a minimum GPA of 3.5 in studio fine art.

### 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 nine 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, new media or design, with no more than nine hours in one studio area. A minimum of six 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 | 2000 or 2020                                 | 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 course work 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, adviser*

### 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, economics, history, geography, etc. In addition to academic courses, activities in the Institute for Asian Studies conducted through the Center for International Studies and Programs include lectures, seminars, and study abroad programs in Asia, as well as selected exchanges in the region.

In addition to the general education requirements of the University of Toledo and the College of Arts and Sciences, students will take 30 hours in Asian studies selected from the following major courses:

**Major Courses:** ARTH 2100, 3250; ECON 3500; GEPL 3120; HIST 2700, 2710, 2720, 2730, 4720, 4740 and 4750; PHIL 3500 and 4500; PSC 2680, 4690, 4780 and 4900; REL 3510; JAPN 3000 and 4000 levels.

Students must select courses from a minimum of three different departments. No more than 15 hours of course work from one department will count toward the Asian studies major. With the approval of the adviser, a maximum of six elective hours may be chosen from independent study courses offered by various departments. This general distributive pattern is designed to encourage the student to examine the various aspects of Asian studies. Asian studies majors are encouraged to take Japanese, Chinese or other Asian languages, if offered, for their foreign language requirement.

In addition to the 30 hours in the major, students are required to take 18 hours in related courses in humanities, social sciences, natural sciences, and business, chosen in consultation with the adviser. Under special cir-



cumstances, certain courses in other colleges may be used to satisfy the related requirement.

## Astronomy

(ADMINISTERED BY THE DEPARTMENT OF PHYSICS AND ASTRONOMY)

*Karen Bjorkman, undergraduate adviser and associate chair*

### 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 34 hours of required astronomy and physics courses in the department of physics and astronomy, eight 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 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 to 2020 (6 hours) is required.

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

**Physics courses:** Either the sequence PHYS 2130 to 2140 (10 hours), or the sequence PHYS 2070 and 2080 to 2100 (12 hours) is required. In addition, PHYS 3180, 3310 and 3610 (9 hours) are required.

**Required mathematics courses:** One of MATH 1830, 1850 or 1920, and one of MATH 1840, 1860 or 1930 (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 and 2180; CHEM 1230, 1240, 1280 and 1290; GEOL 1010, 2210 and 2220; one of MATH 1890 or 2890; one of MATH 2850, 2880 or 2950; and one of MATH 3820, 3860 or 3880.

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

## Department of Biological Sciences

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

*Douglas Leaman, graduate adviser*

*Charles Creutz, undergraduate adviser (medical technology)*

*John Plenefisch, departmental honors adviser*

*Scott Leisner, undergraduate adviser*

*Ernest F. DuBrul, undergraduate adviser*

## Degrees Offered

The department of biological sciences offers a degree program for a bachelor of science. The department of earth, ecological and environmental sciences also offers a degree program for a bachelor of science in biology, with a concentration in ecology and organismal biology (see department's section for requirements).

### 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 Advanced Placement (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, 3070 (or 3410) and 3090. In addition, students must complete at least nine 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 1830 and 1840 or MATH 1850 and 1860; PHYS 2070 and 2080 or PHYS 2130 and 2140; CHEM 1230, 1240, 1280, 1290, 2410, 2420 and 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.

### Requirements for the Minor in Biology

The minor in biology requires 22 credits and the following courses: BIOL 2150, 2160, 2170, 2180, 3010, 3030, 3090 and 3070 or 3410.

### 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 minimum 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

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least 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 UT 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 at [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 and 4050  
CHEM 1230, 1240, 1280, 1290, 2410, 2420 and 2460  
MATH 1750 and 1760  
PHYS 2070 and 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 minimum cumulative GPA of 3.0 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. Kirchhof, associate chair*

*Xiche Hu, director of graduate studies*

*Max O. Funk, undergraduate advising coordinator*

*Bruce A. Averill, undergraduate adviser*

*Dean M. Giolando, undergraduate 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 CHEM 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, and 3860. The following related courses are required: MATH 1830 or 1850, MATH 1840 or 1860, and PHYS 2070 and 2080.

For the bachelor of arts degree in chemistry with a concentration in biochemistry, the following courses must be included: CHEM 1230, 1240, 1280, 1290, 2410, 2420, 2460, 2470, 3310, 3360, 3510, 3520 and 3560 and one additional course from CHEM 3710, 4500, 4510, 4520 or 4530. The following related courses are required: MATH 1750 or 1830 or 1850, MATH 1760 or 1840 or 1860, and PHYS 2070 and 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 and 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 three credit hours. The following related courses are required: MATH 1830 or 1850, MATH 1840 or 1860 and 2850, and PHYS 2130 and 2140. A minimum 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 to earn minimum grades of C in prerequisite courses. Students pursuing a chemistry major may not elect the P/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 minimum GPA of 2.0 in those courses are required for the minor in chemistry. 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, additional courses must be selected from the following: CHEM 3310, 3360, 3510, 3520, 3560, 3610, 3710, 3720, 3730, 3740, 3860, 3870, 4300, 4500, 4510, 4520, 4530, 4620, 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 minimum 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 six hours of chemistry courses at the 3000 and 4000 levels, 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 minimum 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 UT students spend their junior years at Salford, and students in the Salford three-year chemistry honors program spend their second year at UT. 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

*James Benjamin, chair*

*Amy Capwell-Burns, general communication adviser*

*Joseph Clark, public relations adviser*

*Paul Fritz, general communication adviser*

*Paulette Kilmer, journalism adviser*

*Richard J. Knecht, general communication adviser*

*Jacqueline Layng, associate chair and adviser for communication minor*

*Paul A. Many, journalism adviser*

*Brian Patrick, general communication adviser*

*Donald Reiber, broadcasting adviser*

*Fatima A. Shousher, public relations 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

1. All general communication majors must complete the following communication classes with a C or better: COMM 2000, 2400, 2600 and 3870. It will also be necessary to achieve a pass in COMM 4910.
2. All general communication majors must take a minimum of eight 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, 3810, 3830, 3880 and 4630. Independent Study hours (COMM 2990) may not count toward the minimum requirement of eight hours.
3. All general communication majors must take a minimum of eight hours and a maximum of 12 hours from the following conceptual communication classes: COMM 3180, 3820, 3840, 3850, 3890, 4090, 4220, 4250, 4330, 4640, 4810, 4830, 4900 and 4990. Independent Study hours (COMM 4990) may not count toward the minimum requirement of eight hours.
4. A minimum of 35 semester hours is required in the major. A maximum of 43 semester hours is permitted by the college.
5. 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.
6. Students majoring in communication may not elect PS/NC grading in major courses.

## 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.

## 54 College of Arts and Sciences

2. In addition, students are required to take a total of 15 hours, six to nine semester hours from the applied and conceptual categories. Applied communication courses include the following: COMM 2100, 2120, 2150, 2210, 2220, 2600, 2630, 2810, 2990, 3150, 3270, 3280, 3610, 3810, 3830, 3880 and 4630. Independent Study hours (COMM 2990) may not count toward the minimum requirement of six hours. Conceptual communication courses include the following: COMM 3180, 3290, 3720, 3820, 3840, 3850, 3890, 4090, 4210, 4220, 4250, 4330, 4640, 4810, 4830, 4900 and 4990. Independent Study hours (COMM 4990) may not count toward the minimum requirement of six 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 the University Honors Program 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.

### Minor in Disability Studies

(THIS PROGRAM IS INTERDISCIPLINARY. SEE THE LAW AND SOCIAL THOUGHT PROGRAM FOR THE CONCENTRATION IN DISABILITY STUDIES.)

*Mark Sherry, director and adviser*

The minor will consist of a minimum of 21 hours of course work. No more than six hours of courses taken for minor credit may be applied to the total College of 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 of Disability                     |
| DST | 3030 | Issues in Disability Studies                  |
| DST | 4890 | Disability Studies Research and Methodologies |
| DST | 4940 | Internship                                    |

#### Recommended Electives

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

#### Humanities

|      |      |  |
|------|------|--|
| ENGL | 3050 | Persuasive Writing                                       |
| HIST | 4490 | Witchcraft and Magic in Medieval and Early Modern Europe |
| HIST | 4830 | Theory of Public History                                 |
| HIST | 4980 | The Holocaust  |
| PHIL | 3310 | Science and Society                                      |
| PHIL | 3370 | Medical Ethics   |
| WGST | 4170 | Mental Health and Gender                                 |
| WGST | 4980 | Special Topics: 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, ecology and organismal biology*

*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, a bachelor of arts and a bachelor of science in geology, and a bachelor of science in biology with a concentration in ecology and organismal biology. The department of biological sciences also offers a degree program for a bachelor of science in biology (see department of biological sciences’ section for requirements).

### Advanced Placement

For a score of 3, 4 or 5 on the Environmental Science Advanced Placement exam, the department will award credit for EEES 2010 (3 credits).

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

All students in 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 environmental studies (ENST) and environmental sciences (ENSC) majors enrolling in the above courses.

All environmental studies and environmental sciences 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 to 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 environment studies and environmental sciences 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 the following: EEES 3060; CHEM 1230, 1240, 1280 and 1290; and MATH 1750 and 1760 or MATH 1850 and 1860. Students in the B.A. program also must 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.

## Minor in Environmental Sciences

Students electing to minor in environmental sciences must complete at least 22 hours of course work consisting of EEES 2010, 2100, 2150, 2400, and at least eight additional hours of EEES course work listed at 3000 or 4000 level. At least one, one-hour EEES laboratory course must be included. A minimum GPA of 2.0 in the EEES course work is required, and the program must be approved in advance by a departmental adviser.

## 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 UT 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 the following: 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 a minimum 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 the following: EEES 1010 or 2100, and EEES 2500, 2210, 2220, 3320, 4650 and either 3200 or 4610, 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 and 1280; and seven to nine hours of approved electives in astronomy, biology (including EEES ecology courses), chemistry, engineering, geography and planning and/or physics. This degree 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 minimum

GPA of 2.0 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, consisting of 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. The departmental undergraduate adviser must approve a program of study in advance, and a minimum GPA of 2.0 must be achieved for the course work completed in the minor.

## Requirements for the Bachelor of Science Degree in Biology with a concentration in Ecology and Organismal Biology

The bachelor of science degree in biology with a concentration in ecology and organismal biology requires a minimum of 24 hours in the major, including EEES 2150, 2160, 3050, 3060, 3900 and 4150. Additional hours needed to reach the major requirement can be selected from EEES electives and must include at least one advanced laboratory (EEES 4250, 4300, 4330, 4510, 4730, 4740, 4750, 4760, 4790, 4910 or 4940). In addition, the following related courses are required: BIOL 2170, 3010 and 3030; CHEM 1230, 1240, 1280, 1290, 2410, 2420 and 2460; PHYS 2070 and 2080 or 2130 and 2140; and MATH 1750 and 1760 or 1830 and 1840 or 1850 and 1860.

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

The requirements for this degree, as approved by the three participating departments, are as follows: MATH 1850, 1860, 2850, 3860 and 1890 (18 credits); PHYS 2130, 2140, 3180, 4210 and 4230 (18 credits); and EEES 2100, 1020, 2500, 2210, 2220, 3320, 4610 and 4620 (22 credits). Students must also take an additional three to four hours of adviser-approved electives at the 3000 or 4000 level from the mathematics, physics and astronomy, or earth, ecological and environmental sciences departments. In addition, students 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 biology," "honors in environmental sciences," "honors in environmental studies" or "honors in geology."

- A. **Admission:** The departmental Honors Program is open to earth, ecological and environmental sciences 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 three to six credits of EEES 4910 Directed Research and graduate with a minimum overall GPA of 3.3 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 Dowl, 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. Macroeconomics (the study of a national economy) and microeconomics (the study of individual markets) comprise a body of consistent theory. The specific contents of the 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 the 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.

Beyond the required courses, the choice of courses is intentionally wide and numerous programs are possible. Each program is tailored to a student's 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<br>(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:

|      |      |                                     |
|------|------|-------------------------------------|
| 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 P/NC option is available for the remaining nine hours and for all related courses.

### Undergraduate Research

The department of economics offers 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 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 to 4000 levels. 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 minimum cumulative GPA of 3.0.

**B. Requirements:** To be awarded departmental honors in economics, the student must complete a senior thesis and must take nine of the 30-hour major requirements in the honors and honors recognition courses 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 minimum GPA of 3.3 in the major.

## Department of English Language and Literature

*Sara Lundquist, chair*

*Samir Abu-Absi, associate chair and director of academic programs*

*Catherine H. Chengges, administrative coordinator*

*Rane Arroyo, director of creative writing*

*Barbara Schneider, director of composition*

*Matthew Wikander, 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, 3790 and 3810; one course chosen from ENGL 4800 to 4860 (single author); three period courses at the 4000 level – one in British Literature before 1800, one in British Literature after 1800, and one in 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 during the sophomore and junior years the student take courses from the following: ENGL 3710, 3720, 3760 and 3780.
2. **The American Literature Concentration must include the following:** ENGL 3150 and 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, 3790 and 3810; one course chosen from ENGL 4800 to 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., ENGL 2010, 2950, 2960, 3010, 3050, 3800, 4030, 4070, 4080, 4090, 4890 and 4950).
4. **The Creative Writing Concentration must include:** ENGL 3010; three writing workshops (ENGL 4030, 4070 or 4080); 12 credit hours of literature or linguistic courses of which six credit hours must be at the 4000 level. Final requirements include the Capstone course (4890).

**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 advisers

– 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 who want 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. The instructor and the appropriate undergraduate English adviser must approve the proposal in writing.

**Limitations:** No more than five courses in the major and related fields may be P/NC. No more than six 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 to 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) to be 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 minimum 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 to 4540 (British Period courses); and one course chosen from ENGL 4600 to 4680 (American Period courses). The remaining nine hours will be selected from departmental offerings at the 3000 and 4000 levels 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 (six hours). Three courses in writing (one of which must be at the 3000 to 4000 level) selected from the following: ENGL 2010, 2950, 2960, 3010, 3050, 3800, 4030, 4070, 4080, 4090 and 4950 (nine hours). The remaining three 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 drama and English. See the department of theatre and film for more information.

**Certificate in the Teaching of Writing:** Some students design their course of study to earn this postbaccalaureate certificate simultaneously with their master of arts in English. See the course of study outlines in the graduate programs in English language and literature in the Graduate School section of this catalog.

## 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.

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, 3510, 4100  
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.

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 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 FREN/GERM 3010; those with a score of 4 will receive credit for FREN/GERM 3010 and 3020; those with a score of 5 will receive credit for FREN/GERM 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 SPAN 3010; those with a score of 4 will receive credit for SPAN 3000 and 3010; those with a score of 5 will receive credit for SPAN 3000, 3010 and 3020.

Students in Latin with a score of 3 on the language test will receive credit for LAT 2140; those with a score of 4 or 5 will receive credit for LAT 2140 and 2150.

Students in French and Spanish with a score of 3 on the literature test will receive credit for FREN/SPAN 3010; those with a score of 4 will receive credit for FREN/SPAN 3010 and 3020; those with a score of 5 will receive credit for FREN/SPAN 3010, 3020, and 4980.

## Students with Advanced Knowledge of a Foreign Language

Students who have advanced knowledge of a language other than English may not enroll in elementary and intermediate courses taught in that language without permission of the instructor, the course coordinator or the department chair.

## 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 as follows: FREN 3010, 3020\*, 3210, 3220, 3410, 3420, 4010 and 4020\*, and additional 3000/4000 level courses with adviser's approval. Required courses for German are as follows: GERM 3010, 3020\*, 3200, 3410 or 3420, 4010 and 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) and 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 (the latter 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 and 4060, and additional 3000/4000 level courses with adviser's approval. The degree requirements for the paralegal studies and Spanish program are found later in the College of Arts and Sciences section of this catalog.

\*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 pro-



grams. 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 marketing 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 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 it requires fewer literature courses; it requires more culture courses; and 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 to 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 | Contemporary French and Francophone Civilization ..... | 3 |
| FREN | 4980 | Special Topics (as appropriate) .....                  | 3 |

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

|      |      |                       |   |
|------|------|-----------------------|---|
| FREN | 3170 | Business French ..... | 3 |
|------|------|-----------------------|---|

#### 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 3 000/4000 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 .....              | 3 |

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|   |  |                    |
|---|--|--------------------|
| or<br>SPAN 4010   | Syntax and Stylistics .....                  | 4                  |
| <b>Literature course.....</b>                                 |  | <b>3 hours</b>     |
| Choose one:   |  |                    |
| SPAN 3220   | Survey of Spanish Literature II .....        | 3                  |
| SPAN 3280   | Survey of Latin American Literature II ..... | 3                  |
| <b>Culture and civilization courses.....</b>                  |  | <b>6 hours</b>     |
| SPAN 3410   | Spanish Culture and Civilization .....       | 3                  |
| SPAN 3420   | Latin American Civilization .....            | 3                  |
| <b>Applied course work (professional preparation) .....</b>   |  | <b>6 hours</b>     |
| SPAN 3170   | Business Spanish .....                       | 3                  |
| SPAN 4370   | Advanced Business Spanish .....              | 3                  |
| <b>Electives .....</b>  |  | <b>6 hours</b>     |
| Students choose from Spanish courses numbered 3000 or higher. |  |                    |
| <b>Total.....</b>   |  | <b>33-34 hours</b> |

## 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: junior or senior standing; a GPA of 3.3 overall and in the major; and 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 satisfy the standard requirements listed above for the major; maintain a minimum GPA of 3.3 overall and in the major; satisfactorily complete a minimum of 12 hours of departmental honors course work at the 3000 or 4000 level; and include among the 12 hours the Honors Research course (FREN, GERM or SPAN 4910) that normally leads to the completion of an honors thesis.

## Minor in Foreign Languages

### French, German, Japanese or Spanish

A minimum of 21 to 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:

|   |              |
|---|--------------|
| <b>Applied French Minor .....</b>   | <b>Hours</b> |
| 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 3000 .....                     | 3      |
| 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 who want 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 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 languages 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 P/NC; however, up to 12 hours of P/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.)

*Melanie Dusseau, academic 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, at least 32 hours of courses at the 3000 to 4000 level, and must 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 to 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 College 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

*Peter S. Lindquist, chair*

*Patrick L. Lawrence, 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 without concentration consists of the following:

- A. The student must choose one course each in the areas of environmental geography and planning (GEPL 3540, 3550 and 3610); human-economic geography (GEPL 2030 to 4990 except GELP 3420, 3540, 3550, 4490, 4500 and 4510) (including regional courses); Quantitative Methods and Mapping (GEPL 3420); and Fundamentals of Geography (GEPL 2010).
- B. The remainder of the hours are to be chosen from GEPL 2030 to 4990 in consultation with the undergraduate adviser so that these courses, along with appropriate related courses, 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.

## Concentration in Geographic Information Science

The undergraduate major of 31 hours in geography and planning with a concentration in geographic information science consists of the following required courses: GEPL 2010, 3420, 4110, 4180, 4490, 4500, 4520 and 4580.

## Concentration in Planning

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

- A. Required courses (19 hours): GEPL 2010, 3420, 4210, 4530, 4600 and 4700
- B. Electives (select 12 hours from the following): GEPL 3460, 3610, 3900, 4550, 4570 and 4710.

**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: the student must complete a core curriculum consisting of the following courses: GEPL 2010, 2030, 3550, 4530 and 4710; the student must complete one regional course selected from the following: GEPL 3030, 3050, 3120, 3220 and 3300; and the student must complete one planning course from the following: GEPL 4210, 4530, 4550, 4570, 4600 and 4700.

## Minor in Geographic Information Science

The minor in geographic information science consists of the following courses (23 hours): GEPL 2010, 4110, 4490, 4180, 4500 and 4520.

## Minor in Planning

The minor in planning consists of the following (22 hours): the student must complete a core curriculum consisting of the following courses: GEPL 4210, 4530, 4600 and 4700; and the student must complete 10 hours in electives selected from: GEPL 3460, 3900, 4550, 4570 and 4710.

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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 minimum GPA of 3.5 in geography and planning courses;
  2. Maintain a minimum cumulative GPA of 3.3;
  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 nine hours in designated honors courses in geography and planning and a four-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 and will complete and submit to the department's faculty for approval a senior honors project (GEPL 4960).

### Global Studies

(THIS PROGRAM IS AN INTERDISCIPLINARY MAJOR.)

*David S. Wilson, 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.

For purposes of the College of Arts and Sciences Core, this major is designated as a social science.

The major requires the completion of 48 hours, including:

- A. GLST 2000 Principles of Global Studies (3 hours)  
GLST 4900 Senior 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  | GLOBAL STUDIES           |
|---------------|--------------------------|
| Africa        | Development              |
| Asia          | World health issues      |
| Europe        | Global esthetics         |
| Latin America | North-South relations    |
| Middle East   | Ancient global relations |

North America

International multiculturalism

International cultural studies

- C. Within these requirements, students must take at least three of the below 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. 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         |
| 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. Major-level electives to complete the 48 hours required.

### 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 want 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 an 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  |

### Honors in Global Studies

To earn the B.A. degree with honors in global studies, the student must complete all requirements for the major and do the following:

1. Complete an advanced seminar, ideally GLST 4900, for honors credit.
2. Complete an approved Honors thesis, GLST 4960; a maximum of six hours of GLST 4960 may apply to student's major and degree hours.
3. Earn a minimum 3.3 GPA in major courses.

### Department of History

*Alfred Cave, interim chair*

*William O'Neal, graduate adviser*

*Diane Britton, undergraduate adviser*

### Degrees Offered

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

### Advanced Placement

Students with a score of 4 or 5 on the AP European History test will receive credit for HIST 1010 and 1020 (6 hours). Students with a score of 4 or 5 on the AP U.S. History test will receive credit for HIST 2010 and 2020 (6

hours). Students with a score of 4 or 5 on the AP World History test will receive credit for HIST 1060 (3 hours).

## 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 to 16 hours (four courses) must be at the 4000 level. At least nine to 12 of these 29 hours (three courses) shall be in fields of United States history, and at least nine to 12 hours (three 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 P/NC for the minimum requirements for the major, but may opt for P/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, nine 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 minimum GPA of 3.0
  3. A minimum GPA of 3.3 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 to 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 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:

- Nine hours of Spanish conversation and composition (SPAN 3000, 3010 and 3020).
- 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; and
- 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 obtained from the adviser.

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, co-director and adviser*

*Jerry VanHoy, co-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.

The law and social thought program provides students with tools for the appraisal of U.S. and other legal systems and the policies, practices and philosophies that underlie them. The law and social thought program 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 one-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 also is 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 physical and/or cognitive differences and the institutions that think about and manage them, and the role these differences play in the formation, interpretation and enforcement of law.
  - 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 a law and social thought upper division seminar (at the 4000 level) in their junior and senior years. Cross-listed seminars taught at the 4000 level that are not designated as law and social thought 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 law and social thought 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.

### Concentration in Disability Studies

Students with an interest in the study of the social, legal and political issues surrounding disabilities may concentrate in disability studies. Students concentrating in disability studies must take DST 3020 Definitions of Disability and DST 3030 Issues in Disability Studies as part of the law and social thought elective requirement, and must take DST 4890 Disability Studies Research and Methodologies as one of the three law and social thought upper division seminars. DST 4940 Internship will satisfy law and social thought's field experience requirement. It is strongly recommended that disability studies students take DST 2020 Disability Studies in the U.S. Disability studies students will follow the Law, Difference, and Social Practices path within the law and social thought program. Disability studies electives may be selected from the LST cross-listed electives and from the disability studies program's list of recommended electives.

### Concentration in Women's and Gender Studies

Gender bias and gender fairness are important aspects of civil, criminal and family law, rape and discrimination law, and legal education. Undergraduates in law and social thought may wish to study the way gender-related issues structure law, its interpretation, and the social and political forces that surround gender. Law and social thought students may pursue a concentration in women's and gender studies by taking WGST 3010 Issues in Women's Studies and WGST 4870 Feminisms for LST elective credit, and WGST 4890 Research and Methods in partial fulfillment of the upper division seminar requirement. The remaining electives and seminars will be selected from the Law, Difference, and Social Practices path within the law and social thought program. Law and social thought majors with a concentration in women's and gender studies will be required to engage in at least three credits of field experience conducted in collaboration with either a law and social thought or women's and gender studies faculty member.

## Honors in LST

Majors in law and social thought are strongly encouraged to pursue program honors. Students with a minimum GPA of 3.4 in law and social thought and a minimum GPA of 3.3 overall are eligible for this distinction. In order to earn program honors in law and social thought, the student must:

1. Take two advanced law and social thought courses for honors credit (by arrangement with the Honors Program). These courses also will satisfy the law and social thought elective or upper division seminar requirements;
2. Submit one paper from either of the two advanced law and social thought courses to the law and social thought program's honors committee; and
3. Write a thesis under the direction of a law and social thought-affiliated faculty member. Students must enroll in Honors Thesis in law and social thought. Participation in the college Honors Program is not required for those seeking program honors.

## Minor in Law and Social Thought

The minor achieves law and social thought'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 law and social thought minor consists of core requirements (six hours: the gateway course and the course in critical reasoning) and five 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.

The following are the requirements for the law and social thought minor:

1. **Total hours:** 21 hours of law and social 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 law and social thought 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 law and social thought. 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 law and social thought program. Electives should be chosen from one of the four paths listed above in the degree requirements for law and social thought majors.

At least one elective must be a law and social thought 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 law and social thought will be invited to participate in field experience, and elective credit will be offered depending on the 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, and 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, or 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 with a minimum GPA of 3.6 in those courses after completing at least 15 of the 30 hours required within the linguistics major 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 minimum 3.6 GPA in linguistics. Complete details about honors in linguistics are available from the linguistics adviser.

## Department of Mathematics

*Geoffrey Martin, chair*

*Donald B. White, 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 2630.

## Degree Requirements

To obtain a bachelor's degree in mathematics, students must complete MATH 1860 (or 1840 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
  - a. The following are required: MATH 3860, 4330, 4820 and 4880.
  - b. Two courses must be completed from MATH 4300, 4450, 4540 or 4830.
  - c. The remaining course work may be chosen from courses at the 3000 or 4000 level approved by the adviser.
2. Applied mathematics
  - a. The following are required: MATH 3320 or 4330, 3860, 4300 or 4350, and 4820 or 4880.
  - b. One of the following two-semester sequences must be completed: MATH 4710 and 4720 or 4740 and 4750.

3. Statistics
  - a. The following courses are required: MATH 3610, 3620, 4350, 4600, 4610, 4680 and 4690.
4. Mathematics with computer science
  - a. The following are required: MATH 3860, 4380, 4710, 3320 or 4330, 4820 or 4880, and 4350 or 4390 or 4720.
  - b. The remaining course work may be chosen from courses at the 3000 or 4000 level approved by the adviser.
  - c. 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 to 4000 levels) 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 and 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 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 and 2800, ECON 4510 and 4520, GEPL 3810, PSC 2700 and 4730, and SOC 4340, 4800 and 4980
- B. **History/humanities courses** – approximately 21 hours from the following:  
**Required:** HIST 1120, 2040, 3540 and 3550 (3 hours each)  
**Electives:** HIST 2070, 2090, 4390 and 4400; PHIL 3500 and 3570; REL 2310 and 2330; and ARBC 1110, 1120, 2140 and 2150
- C. **Related courses:** Approximately six 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

*Lee Heritage, chair*

*Michael Boyd, undergraduate adviser, B.A., B.M.*

*Timothy D. Brakel, Ed Duling, undergraduate advisers, music education*

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

### Degrees Offered

The department of music offers the bachelor of arts, bachelor of music and bachelor of music education degrees. The bachelor of music education degree is offered through the College of Education. For information on that degree, please see the College of Education's section in this catalog.

### Audition

Students who wish to major in music or music education must pass an entrance audition. Please call the department of music office at 419.530.2448 to ask for an audition application to be sent to you or go to our Web site [www.music.utoledo.edu](http://www.music.utoledo.edu) and click on "Audition Signup." For audition guidelines, visit [www.music.utoledo.edu/musicAtUTPR/index.asp?id=71](http://www.music.utoledo.edu/musicAtUTPR/index.asp?id=71).

A student may be accepted, accepted on provisional status, or denied admission to music degree work based on the entrance audition.

### Acceptance on Provisional Status

Students who do not pass the entrance audition will be placed on provisional status and will be allowed two semesters to pass the audition (excluding summer session). While on provisional status, the students will register for MUS 1810 in applied music. While MUS 1810 will earn University credits, the credits will not be applicable to the major. Students who are unable to pass the entrance audition within two semesters (excluding summer session) will be dropped from the major.

### Requirements for the Bachelor of Arts Degree

The major of 40 hours in music must be distributed as follows:

- a. Performance Laboratory: MUS 1000 (8 semesters) – 0 hours  
 Transfer students will be required to complete a number of semesters proportionate to credits transferred.
- b. Concert Attendance: MUS 1010 (8 semesters) – 0 hours  
 Transfer students will be required to complete a number of semesters proportionate to credits transferred.

- c. Music Technology: MUS 1100 – 1 hour
- d. Music Theory: MUS 1610, 1620, 2610 and 2620 (a grade of C or better is required in each course) – 16 hours
- e. Music History and Literature: MUS 2410, 3410 and 3420 (A grade of C or better is required in each course) – 9 hours
- f. Class Piano: Two hours from MUS 1570, 1580, 2570 or 2580 (Classes assigned by diagnostic test; a grade of C or better is required in each course) – 2 hours
- g. Applied vocal or instrumental instruction from MUS 1800 and 2800. At least six hours must be in the same instrument or voice. Each course must be taken twice (a grade of B or better is required in each course) – 8 hours
- h. 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 3010, 3020, 3040, 3050, 3090, 3140, 3150, 3160, or 3180. The minimum requirement is an accumulation of eight hours of ensemble credits, but only four hours may count toward the 124 hours required for the degree.

Students may elect an additional 10 hours of music courses beyond the required 40 hours of basic courses for a maximum of 50 hours of music within the 124 hours for the bachelor of arts degree. It is recommended that these additional courses include 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 pursue one of nine concentrations. Students 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 fourth level of proficiency for the particular instrument or voice.

The requirements for each of the nine bachelor of music degree programs include non-music courses, core music courses and concentration courses.

### Non-Music Courses

The non-music courses for the bachelor of music degree total 44 hours and are distributed as follows:

- a. ARS 1000 Orientation – 1 hour
- b. ENGL 1110 and one course chosen from ENGL 1130, 1140 or 1150 – 6 hours
- c. PSY 1010 and one other non-PSY core social science course – 6 hours
- d. MATH 1180 and two natural science core courses from different disciplines. Students with a concentration in music business and recording arts must take PHYS 1310 as one of the two core natural science courses – 9 hours
- e. Humanities courses other than music, including two humanities core courses from different disciplines. Students with a concentration in voice must take at least one semester each of French and German – 14 hours
- f. Non-music electives – 8 hours

- g. Students must satisfy the U.S. diversity and non-Western multicultural core requirements (6 hours) as part of b, c, e and f above.

### Core Music Courses for Concentrations in Voice, Piano, Organ, Guitar, Strings and Wind and Percussion (66 hours)

- a. Performance Laboratory: MUS 1000 (eight semesters) – 0 hours  
Transfer students will be required to complete a number of semesters proportionate to credits transferred.
- b. Concert Attendance: MUS 1010 (eight semesters) – 0 hours  
Transfer students will be required to complete a number of semesters proportionate to credits transferred.
- c. Music Technology: MUS 1100 – 1 hour
- d. Music Theory: MUS 1610, 1620, 2610, 2620, 3610 and 4620 (a grade of C or better is required in 1610, 1620, 2610 and 2620) – 22 hours
- e. Music History and Literature: MUS 2410, 3410 and 3420 (a grade of C or better is required in each course) – 9 hours
- f. Conducting: MUS 3500 – 2 hours
- g. Applied Music on major instrument: MUS 1800, 2800, 3800 and 4800. (Each course must be taken twice and a grade of B or better is required in each course) – 30 hours
- h. Junior and Senior Recitals: MUS 3810, 4810 – 2 hours

Additional requirements for each concentration are indicated below.

### Voice Concentration – 18 additional hours, for a degree total of 128.

- a. Class Piano: MUS 1570, 1580, 2570 and 2580 (a grade of C or better is required in each course) – 4 hours
- b. Performing groups: Eight semesters of MUS 3140, 3160, 3180 or 3020. (Note: MUS 3020 may only fulfill the requirement for one semester.) Students must enroll in one of these courses each semester they are taking 12 or more hours. Four semesters of MUS 3050:071, 3150, 3170 or 3190. The minimum requirement is an accumulation of 12 hours of ensemble credits, but only four hours may be counted toward the degree – 4 hours
- c. MUS 2530, 2540, 3550 and 4420 – 8 hours
- d. Music electives chosen from upper-division academic music courses – 2 hours

### Piano and Organ Concentrations – 18 additional hours for a degree total of 128.

- a. Performing groups: Four semesters of MUS 3140, 3160, 3180 or 3020. (Note: MUS 3020 may only fulfill the requirement for one semester.) Two semesters of MUS 3050:041 or 3050:043. Eight semesters of MUS 3050:044. The distribution of MUS 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 14 hours of ensemble credits, but only four hours may be counted toward degree – 4 hours
- b. MUS 2590, 3580, 3590 and 4450 – 9 hours
- c. Music electives chosen from upper level academic music courses – 5 hours

### String Concentration – 17 additional hours for a degree total of 127.

- a. Class Piano: MUS 1570, 1580, 2570 or 2580. Appropriate courses (determined by placement test). A grade of C or better is required in each course – 3 hours
- b. Performing groups: Eight semesters of MUS 3090. Students must enroll in MUS 3090 each semester they are taking 12 or more hours. Two semesters of MUS 3140, 3160 or 3180. Four 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 four hours may be counted toward the degree – 4 hours

- c. MUS 1500 and 4410 – 5 hours
- d. Music electives, chosen from upper division academic music courses – 5 hours

**Guitar Concentration** – 17 additional hours for a degree total of 127.

- a. Class Piano: MUS 1570, 1580, 2570 or 2580. Appropriate courses (determined by placement test). A grade of C or better is required in each course – 3 hours
- b. Performing groups: Eight semesters of MUS 3050:036. Two semesters of MUS 3050:044, 3050:071 or 3050:137. Two semesters of MUS 3020, 3140, 3160 or 3180. (Note: MUS 3020 may only be used to fulfill the ensemble requirement for one semester.) Students must enroll in MUS 3050:036 or any large ensemble (MUS 3010, 3020, 3040 or 3090) each semester they are taking 12 or more hours. The minimum requirement is an accumulation of 12 hours of ensemble credits, but only four hours may be counted toward degree – 4 hours
- c. MUS 3570 and 4460 – 6 hours
- d. Music electives, chosen from upper division academic music courses – 4 hours

**Wind and Percussion Concentration** – 16 additional hours for a degree total of 126.

- a. Class Piano: MUS 1570, 1580, 2570 or 2580. Appropriate courses (determined by placement test). A grade of C or better is required in each course – 3 hours
- b. Performing groups: Eight semesters chosen from MUS 3010, 3020, 3040 or 3090 with a minimum of 2 semesters of MUS 3010 and/or MUS 3040, and a minimum of two semesters of MUS 3090. (Note: MUS 3020 may only fulfill the requirement for one semester.) Students must enroll in one of these courses each semester they are taking 12 or more hours. Two semesters of MUS 3140, 3160 or 3180. Four 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 four hours may be counted toward degree – 4 hours
- c. Instrumental Music Literature: MUS 4410 – 3 hours
- d. Pedagogy on major instrument: MUS 1510, 1530 or 1550 – 2 hours
- e. Music electives, chosen from upper division academic music courses – 4 hours

**Music Core Courses for Instrumental Jazz and Vocal Jazz Concentrations (66 hours)**

- a. Performance Laboratory: MUS 1000 (eight semesters) – 0 hours  
Transfer students will be required to complete a number of semesters proportionate to credits transferred.
- b. Concert Attendance: MUS 1010 (eight semesters) – 0 hours  
Transfer students will be required to complete a number of semesters proportionate to credits transferred.
- c. Music Technology: MUS 1100 – 1 hour
- d. Music Theory: MUS 1610, 1620, 2610, 2620, 3650 and 3660 (a grade of C or better is required in 1610, 1620, 2610 and 2620) – 22 hours
- e. Music History and Literature: MUS 3410, 3420 and 3450 (a grade of C or better is required in 3410 and 3420) – 9 hours
- f. Jazz Pedagogy and Conducting: MUS 3560 – 2 hours
- g. Applied Music: Eight hours of Applied Music (classical) and successful completion of two semesters with a grade of B or better in MUS 2800 (classical). Eighteen hours of Applied Music (jazz) on the student's major instrument (or combination of instruments with the consent of the adviser) and successful completion of two semesters with a grade of B or better in MUS 4800 (jazz). The remaining four

hours will include MUS 1570 Class Piano (1 hour), MUS 1590 Jazz Class Piano (1 hour), and 2 semesters of MUS 2800:065 Applied Jazz Piano. A grade of C or better is required in MUS 1570 and 1590 – 30 hours

- h. Junior and Senior Recitals: MUS 3810 and 4810 – 2 hours

Additional requirements for each concentration are indicated below.

**Instrumental Jazz Concentration** – 17 additional hours, for degree total of 127.

- a. Performing groups: Eight semesters of MUS 3020 and one semester of MUS 3150, 3140, 3160 or 3180. Students must enroll in one of these courses each semester they are taking 12 or more hours. Four semesters of MUS 3050:137. The minimum requirement is an accumulation of 13 hours of ensemble credits, but only four hours may be counted toward degree – 4 hours
- b. Jazz Improvisation: MUS 1700, 2700, 2710, 3700 and 3710 – 10 hours
- c. Recording Techniques: MUS 2270 – 2 hours
- d. Music elective, chosen from upper division academic music courses – 1 hour

**Vocal Jazz Concentration** – 17 additional hours, for a degree total of 127.

- a. Performing groups: Eight semesters of MUS 3150. Four semesters of MUS 3020 or MUS 3050:137. Students must enroll in one of these courses each semester they are taking 12 or more hours. The minimum requirement is an accumulation of 12 hours of ensemble credits, but only four hours may be counted toward degree – 4 hours
- b. Jazz Improvisation: MUS 1700, 2700, 2710, 3700 and 3710 – 10 hours
- c. Recording Techniques: MUS 2270 – 2 hours
- d. Music elective, chosen from upper division academic music courses – 1 hour

**Music Core Courses for Instrumental and Vocal Jazz Concentration with an Emphasis in Music Business and Recording Arts (62 hours)**

- a. Performance Laboratory: MUS 1000 (eight semesters) – 0 hours  
Transfer students will be required to complete a number of semesters proportionate to credits transferred.
- b. Concert Attendance: MUS 1010 (eight semesters) – 0 hours  
Transfer students will be required to complete a number of semesters proportionate to credits transferred.
- c. Music Technology: MUS 1100 – 1 hour
- d. Music Theory: MUS 1610, 1620, 3650 and 3660 (a grade of C or better is required in 1610 and 1620) – 14 hours
- e. Music History and Literature: MUS 3410, 3420 and 3450 (a grade of C or better is required in 3410 and 3420) – 9 hours
- f. Jazz Pedagogy and Conducting: MUS 3560 – 2 hours
- g. Applied Music: 16 hours of Applied Music (jazz) on the student's major instrument (or combination of instruments with the consent of the adviser) and successful completion of two semesters with a grade of B or better in MUS 4800 (jazz). The remaining four hours will include MUS 1570 Class Piano (1 hour), MUS 1590 Jazz Class Piano (1 hour), and two semesters of MUS 2800:065 Applied Jazz Piano. A grade of C or better is required in MUS 1570 and 1590 – 20 hours
- h. Junior Recital: MUS 3810 – 1 hour
- i. Music Business: MUS 2280, 3280, 3290 and 4290 (for six credits) – 13 hours
- j. Music electives, chosen from upper division academic music courses – 2 hours

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**Instrumental and Vocal Jazz Concentration with an Emphasis in Music Business and Recording Arts** – 18 additional hours, for a degree total of 124 hours.

- Performing groups: Follow the same requirements for Instrumental Jazz or Vocal Jazz Concentrations above. Only four hours of ensemble may be counted toward degree – 4 hours
- Jazz Improvisation: MUS 1700, 2700, 2710, 3700 and 3710 – 10 hours
- Recording Techniques: MUS 2270 and 3270 – 4 hours

### 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 seven minors 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 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.

| <b>Jazz Minor</b> |            | <b>Hours</b>  |
|-------------------|------------|---|
| MUS               | 1000       | Performance Laboratory (2 semesters)..... 0   |
| MUS               | 1010       | Concert Attendance (3 semesters)..... 0   |
| MUS               | 1570       | Piano Class (Class assigned by diagnostic test; or a grade of C or better is required.) |
|                   | 1590       |   |
|                   | 2570       |   |
|                   | or         |   |
|                   | 2580       | ..... 1   |
| MUS               | 1700       | Jazz Fundamentals ..... 3   |
| MUS               | 2700       | Jazz Improvisation I..... 2   |
| MUS               | 2710       | Jazz Improvisation II..... 2  |
| MUS               | 1800       | Applied Jazz Music*   |
|                   | 2800       | ..... 8   |
| MUS               | 3020       | Jazz Ensembles (4 semesters)  |
|                   | 3150       |   |
|                   | 3050: 136, |   |
|                   | or         |   |
|                   | 3050: 137  | ..... 4   |
| MUS               | 3450       | Jazz History and Literature ..... 3   |
| <b>Total</b>      |            | <b>22</b>   |

### Instrumental Minor

|     |      |  |
|-----|------|--|
| MUS | 1000 | Performance Laboratory (2 semesters).. 0   |
| MUS | 1010 | Concert Attendance (3 semesters)..... 0  |
| MUS | 1570 | Piano Class (Class assigned by diagnostic test; a grade of C or better is required.) |
|     | 1580 |  |
|     | 2570 |  |
|     | or   |  |
|     | 2580 | ..... 1  |
| MUS | 1610 | Music Theory and Ear Training I (a grade of C or better is required.)..... 4         |
| MUS | 1800 | Applied Music*   |

|              |           |  |
|--------------|-----------|--|
|              | 2800      | ..... 8  |
| MUS          | 3010      | Ensembles (4 semesters)  |
|              | 3040      |  |
|              | 3050:36,  |  |
|              | or        |  |
|              | 3090      | ..... 4  |
| MUS          | 2410      | Music History and Literature I (a grade of C or better is required.) ..... 3 |
| MUS          | electives | Major level only, excluding ensembles... 2                                   |
| <b>Total</b> |           | <b>22</b>  |

### Vocal Minor

|              |           |  |
|--------------|-----------|--|
| MUS          | 1000      | Performance Laboratory (2 semesters) .. 0  |
| MUS          | 1010      | Concert Attendance (3 semesters)..... 0  |
| MUS          | 1570      | Piano Class (Class assigned by diagnostic test; a grade of C or better is required.) |
|              | 1580      |  |
|              | 2570      |  |
|              | or        |  |
|              | 2580      | ..... 1  |
| MUS          | 1610      | Music Theory and Ear Training I (a grade of C or better is required.)..... 4         |
| MUS          | 1800      | Applied Music*   |
|              | 2800      | ..... 8  |
| MUS          | 3140      | Ensembles (4 semesters)  |
|              | 3160      |  |
|              | or        |  |
|              | 3180      | ..... 4  |
| MUS          | 2410      | Music History and Literature I (a grade of C or better is required.) ..... 3         |
| MUS          | electives | Major level only, excluding ensembles.. 2  |
| <b>Total</b> |           | <b>22</b>  |

### Keyboard Minor

|              |                |  |
|--------------|----------------|--|
| MUS          | 1000           | Performance Laboratory (2 semesters) .. 0                                    |
| MUS          | 1010           | Concert Attendance (3 semesters)..... 0                                      |
| MUS          | 1610           | Music Theory and Ear Training I (a grade of C or better is required.)..... 4 |
| MUS          | 1800, 2800     | Applied Music*..... 8  |
| MUS          | 3010, 3040,    | Ensembles (4 semesters)..... 4   |
|              | 3050:44, 3090, |  |
|              | 3140, 3160, or |  |
|              | 3180           |  |
| MUS          | 2410           | Music History and Literature I (a grade of C or better is required.) ..... 3 |
| MUS          | 3580           | Functional Techniques ..... 2  |
| MUS          | electives      | Major level only, excluding ensembles.. 1                                    |
| <b>Total</b> |                | <b>22</b>  |

### Music Theory Minor

|              |      |   |
|--------------|------|---|
| MUS          | 1000 | Performance Laboratory (2 semesters) .. 0   |
| MUS          | 1010 | Concert Attendance (3 semesters)..... 0   |
| MUS          | 1570 | Piano Class (class assigned by diagnostic test; a grade of C or better is required.)      |
|              | 1580 |   |
|              | 2570 |   |
|              | or   |   |
|              | 2580 | ..... 3   |
| MUS          | 1610 | Music Theory and Ear Training I-IV (A . grade of C or better is required in each course.) |
|              | 1620 |   |
|              | 2610 |   |
|              | and  |   |
|              | 2620 | ..... 16  |
| MUS          | 2410 | Music History and Literature I (a grade of C or better is required.) ..... 3              |
| <b>Total</b> |      | <b>22</b>   |

**Music History and Literature Minor**

|                    |            |  |           |
|--------------------|------------|--|-----------|
| MUS                | 1000       | Performance Laboratory (2 semesters) ..    | 0         |
| MUS                | 1010       | Concert Attendance (3 semesters).....      | 0         |
| MUS                | 1570       | Piano Class (class assigned by diagnostic  |           |
|                    | 1580       | test; a grade of C or better is required.) |           |
|                    | 2570       |  |           |
|                    | or         |  |           |
|                    | 2580       | .....                                      | 1         |
| MUS                | 1610       | Music Theory and Ear Training I (a grade   |           |
|                    |            | of C or better is required.).....          | 4         |
| MUS                | 2410       | Music History and Literature I-III (a      |           |
|                    | 3410       | grade of C or better is required in each   |           |
|                    | and        | course.)                                   |           |
|                    | 3420       | .....                                      | 9         |
| MUS                | 4000 level | Music History Class.....                   | 3         |
| MUS                | electives  | Major level only, excluding ensembles..    | 5         |
| <b>Total</b> ..... |            |  | <b>22</b> |

**Music Business and Recording Arts Minor**

|                    |      |  |           |
|--------------------|------|--|-----------|
| MUS                | 1000 | Performance Laboratory (one semester ..      |           |
|                    |      | taken concurrently with MUS 3270).....       | 0         |
| MUS                | 1010 | Concert Attendance (3 semesters).....        | 0         |
| MUS                | 1570 | Piano or Jazz Piano Class (class assigned    |           |
|                    | 1580 | by diagnostic test; a grade of C or better   |           |
|                    | 1590 | is required.)                                |           |
|                    | 2570 |  |           |
|                    | or   |  |           |
|                    | 2580 | .....  | 1         |
| MUS                | 1610 | Music Theory and Ear Training I (a grade     |           |
|                    |      | of C or better is required.).....            | 4         |
| MUS                | 2270 | Recording Techniques.....                    | 2         |
| MUS                | 2280 | Survey of Music Business.....                | 3         |
| MUS                | 3270 | Advanced Recording Techniques.....           | 2         |
| MUS                | 3280 | Concert and Event Production .....           | 3         |
| MUS                | 3290 | Music Industry Practicum .....               | 1         |
| MUS                | 4290 | Music Industry Internship .....              | 6         |
|                    |      | (Internships are available for 2, 3, 4, or 6 |           |
|                    |      | hours)                                       |           |
| PHYS               | 1310 | Physics of Music and Sound .....             | 3         |
| <b>Total</b> ..... |      |  | <b>25</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 cumulative GPA of 3.0 through the junior year and at least a 3.5 average in 12 hours of work chosen from the following courses: MUS 3450, 3470, 3610, 3630, 3650, 3660, 4410, 4420, 4450, 4460, 4620, 4640, 4690 (this course may be taken only once toward honors 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 on 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 to 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 nine hours) in the humanities (history, English literature, fine arts, philosophy or communication).
- Two courses (minimum of six hours) in natural sciences (astronomy, biology, chemistry, geology or physics).
- Completion of the major in political science as follows:
  - Either PSC 1200 American National Government (3 hours) or PSC 1400 Current Issues in US Public Policy (3 hours) plus a minimum of 30 additional hours in political science chosen in consultation with a departmental adviser.
  - One course from three of the following four fields:
 

|                                |   |
|--------------------------------|---|
| <b>Public Administration</b>   |   |
| PSC 3420                       | Principles of Public Administration.....      |
| <b>International Relations</b> |   |
| PSC 2700                       | Principles of International Relations.....    |
| <b>Comparative Government</b>  |   |
| PSC 2610                       | Government of Great Britain or                |
| PSC 2620                       | Comparative Politics of Continental Europe or |
| PSC 2660                       | Politics in Africa .....                      |
| <b>Political Theory</b>        |   |
| PSC 2800                       | Principles of Political Theory .....          |
- Completion of additional courses in the department to satisfy the 30-hour requirement.
- Minimum of 18 hours (six 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.
- 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 Martín, 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 (three hours).
  2. Three courses (minimum nine hours) in natural sciences.
  3. One course (three 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 3 000/4000 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 3230
2. Either PHIL 3000 or 3060
3. Either PHIL 3400 or 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 and 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 minimum GPA of 2.0;
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; and
5. The 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 through 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; and
4. A minimum GPA of 3.3 in philosophy.

## Department of Physics and Astronomy

*Alvin D. Compaan, chair*

*Karen S. Bjorkman, undergraduate adviser, astronomy and associate chair*

*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 22 hours of physics courses and 23 hours of related-area courses; the concentration must contain an additional 21 hours of physics and related courses. Another nine hours of courses from natural sciences, mathematics, or engineering are recommended.

**Core physics courses:** PHYS 2130, 2140, 3150, 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 and 1280, one of MATH 1830, 1850 or 1920, one of MATH 1840, 1860, or 1930, one of MATH 1890, or 2890, one of MATH 2850, 2880, or 2950, and one of MATH 3820, 3860 or 3880 are required.

### Concentrations

The student must choose one of the following concentrations:

**Physics:** PHYS 3180, 3610, 4210, 4230, 4240, 4310, and either 4580 or 4780.

**Astrophysics:** PHYS 3610, 4210, 4230 and 4240, and ASTR 4810, 4820 and 4880.

**Applied Physics:** PHYS 3610, 4210, 4230, 4240, 4510, and either 4580 or 4780, plus three hours of appropriate courses from physics or engineering, chosen with the adviser's approval.

In addition to the above requirements, students should consider at least three of the following optional courses: ASTR 4810, 4820 and 4880; PHYS 4130, 4510 and 4620; MATH 3190, 4300, 4740 and 4750.

## Requirements for the Bachelor of Arts in Physics

The B.A. in physics consists of 31 to 36 hours in the department of physics and astronomy, eight 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 3180, 3310, 3320, 3410 and either 3610 or 4620.

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

**Required mathematics courses:** One of MATH 1830, 1850 or 1920, and one of MATH 1840, 1860 or 1930 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 and 2180; CHEM 1230, 1240, 1280 and 1290; EEES 1010, 2210 and 2220; one MATH 1890 or 2890; one of MATH 2850, 2880 or 2950; and one of MATH 3820, 3860 or 3880.

## 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 or astrophysics must complete at least 22 hours of course work in physics as follows:

#### Required for both minors:

PHYS 2130 and 2140 or 2070, 2080 and 2100; 3180 and 3310.

#### Required for the physics minor:

PHYS 3320 and one physics course numbered above 3400.

#### 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; at least a 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 at least a 3.3 GPA in the major. In addition to the normal requirements for a physics undergraduate major, the student must successfully complete six hours of physics with honors in courses numbered above 3320\*, six hours of math at or above the 3000 level and three 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

*Mark E. Denham, 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.

## Requirements for the Undergraduate Major

The bachelor of arts degree in political science requires:

1. Either PSC 1200 American National Government (3 hours) or PSC 1400 Current Issues in U.S. Public Policy (3 hours).
2. Completion of 30 additional hours in political science chosen in consultation with a departmental adviser.
  - a. One course from three of the following four “gateway” 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
  - b. Additional courses to meet 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 – either PSC 1200 American National Government or PSC 1400 Current Issues in U.S. Public Policy, the minimum of 30 additional hours in political science, and satisfaction of the three-course “gateway” requirement listed under (a) above. Within the 30 hour-requirement, the specialization requires 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, as well as to provide a basis for subsequent graduate work in a wide variety of academic and professional programs.

The foundation for this specialization is the bachelor’s degree in political science – either PSC 1200 American National Government or PSC 1400 Current Issues in U.S. Public Policy and a minimum of 30 additional hours. Students must complete PSC 2300 Principles of State and Local Government, and PSC 3110 Social Science Statistics; PSC 3420 Principles of Public Administration to satisfy one of the three “gateway” fields; one course from each of two other “gateway” fields; and at least one course in each of following 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 either PSC 1200 American National Government or PSC 1400 Current Issues in U.S. Public Policy, and three of the four gateway subfields. At least nine of the 21-credit hour minimum must be at the 3000 and 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<br>(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

*Joseph D. Hovey, chair*

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

## Degrees Offered

The department of psychology offers a bachelor of arts degree.

## Advanced Placement

Students with a score of 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.

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

1. Overall minimum GPA of 2.0.
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).

### 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<br>Lifespan Developmental |
| 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 four hours of PSY 3940 Externship in Psychology, PSY 4100 Research Practicum, PSY 4990 Independent Study and PSY 4910 Independent Research.

### 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 nine hours must be courses numbered 3000 or higher.
- b. BIOL 2150 Fundamentals of Life Science I and BIOL 2160 Fundamentals of Life Science Lab I 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.

## 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. A minimum overall GPA of 3.0.
  2. A minimum GPA in psychology courses of 3.4.
  3. Either good standing in the College Honors Program, recommendation by two department faculty members, or 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 PSY 4800 Psychology Honors Conference (4 hours) and all of the following courses are required: PSY 3800 Honors Proposal (3 hours), PSY 3910 Honors Research (3 hours), PSY 4960 Honors Thesis (2 to 3 hours) and PSY 3820 and 4820 Honors Meeting (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 nine hours of advanced psychology courses. The departmental adviser must approve each program. 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<br>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 nine

hours of psychology courses numbered 3000 to 4990. No more than a total of four hours of PSY 4100 Research Practicum, PSY 4910 Independent Research and PSY 4990 Independent Study may be included.

## Religious Studies Program

(THIS PROGRAM IS AN INTERDISCIPLINARY MAJOR.)  
*Richard Gaillardetz, adviser*

### Degree Offered

The religious studies program offers a bachelor of arts degree.

### Requirements for the Undergraduate Major

The major in religious studies must include a minimum of 30 hours of religious studies courses and 18 hours of related courses. Courses for the major in religious studies may not be taken as PS/NC.

**A. Required courses (6 hours):**

- REL 2000
- REL 3570

**B. Distribution requirements (12 hours):**

At least one course must be taken from each area, with at least 6 hours at the 3000 to 4000 level:

1. **Christian Studies:** REL 2330, 2350, 2380, 2410, 3420 and 3670
2. **Non-Christian Western religions:** REL 2070, 2090, 2300, 2310, 3080, 3100, 3710 and 4310
3. **Non-Western religions:** REL 3500, 3510, 3520 and 4500

**C. Electives (12 hours):**

Electives are developed in consultation with the religious studies adviser; at least six hours of courses in religious studies at 4000 level.

**D. Related courses (18 hours):**

As part of the general College of Arts and Sciences requirements, the student must take 18 hours of related courses outside the religious studies program that have been approved by the student's adviser. A minimum of nine of these hours must be taken at the 3000 level or above. A minor in another department may be used to satisfy the related courses requirements.

### Honors in Religious Studies

- A. **Admission:** Junior and senior majors with an overall minimum GPA of 3.0 may work for the citation "honors in religious studies."
- B. **Requirements:** Upon graduation, the student shall have a minimum 3.4 GPA in religious studies courses. The student shall complete substantial written work in two courses with two different religious studies faculty members:
  1. One shall be a term paper completed for a religious studies 4000 level course taken for honors.
  2. One shall be an honors thesis completed under the direction of a second faculty member while registered for REL 4960.

Upon recommendation of the two respective instructors and with the approval of a majority of the religious studies faculty, the student completing the above requirements shall be awarded the citation "honors in religious studies."

## Minor in Religious Studies

A minor in religious studies complements a variety of University programs in the humanities, the social and natural sciences, the arts, education and business. All students seeking a minor in religious studies must meet the following requirements. Courses taken for the minor in religious studies may not be taken as PS/NC.

**A. Required courses (6 hours):**

- REL 2000
- REL 3570

**B. Distribution requirements (9 hours):**

At least one course must be taken from each area, with at least six hours at the 3000 to 4000 levels:

1. **Christian Studies:** REL 2330, 2350, 2380, 2410, 3420 and 3670
2. **Non-Christian Western religions:** REL 2070, 2090, 2300, 2310, 3080, 3100, 3710 and 4310
3. **Non-Western religions:** REL 3500, 3510, 3520 and 4500

**C. Electives (6 hours):**

Electives are selected in consultation with the religious studies adviser; with at least three of these hours of religious studies courses at the 4000 level.

Also available is a religious studies minor with honors. Specific requirements are:

- A. Points A through C above;
- B. Either an honors section of a religious studies 3000- or 4000-level course or a religious studies 3000- or 4000-level course taken under an honors contract; and
- C. A minimum GPA of 3.2 in religious studies courses.

## Sociology

(ADMINISTERED BY THE DEPARTMENT OF SOCIOLOGY AND ANTHROPOLOGY)

*Barbara K. Chesney, chair*

*Angela M. Siner, 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 2000 | ProSeminar in Sociology | ..... | 1 |
| SOC 3270 | Social Research Methods | ..... | 3 |
| SOC 4000 | ProSeminar in Sociology | ..... | 2 |
| SOC 3290 | Social Statistics       | ..... | 3 |
| SOC 4040 | Classical Theory        | ..... | 3 |

21 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, communication, economics, geography, history, political science, psychology and women's and gender studies. Fifteen of these hours must be taken at the 3000 or 4000 level. Students may not take P/NC in major or related courses.

## Minor in Sociology

Requirements for the 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.

## Minor in Social Informatics

The minor in social informatics focuses on helping students understand the social influences on and social consequences of information and communication technologies. With the increasing use of cell phones, PDAs, personal computers and other associated technology, it is important to understand how to shape that use to the greatest social benefit. In addition, students trained to become the designers and managers of this technology need to learn how to approach their design and management activities from a social systems perspective. This minor is especially beneficial for students whose career paths will emphasize technology design and management. All students are required to demonstrate basic and specialized computer literacy.

Requirements for minor in social informatics minor must include 21 hours, configured as follows:

|           |      |   |     |
|-----------|------|---|-----|
| SOC       | 2010 | Sociology of the Internet .....                           | 3   |
| SOC       | 4210 | Community Informatics .....                               | 3   |
| SOC       | 4220 | Theories of the Information Society .....                 | 3   |
| SOC       | 4230 | Internship in Community Information<br>Technology .....   | 3-6 |
| SOC       | 4580 | Science, Technology and Social Change .....               | 3   |
| Electives |      | Sociology or other courses with adviser<br>approval ..... | 3-6 |

## 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. Minimum GPA of 3.3 in sociology courses;
2. Minimum cumulative GPA of 3.0;
3. Completion of 12 hours of sociology courses; and
4. Qualification as a sociology major.

### B. Requirements:

A student must complete nine 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

*Holly Monsos, interim chair and theatre adviser*

*James S. Hill, theatre adviser*

*Tammy Kinsey, film adviser*

## Degrees Offered

The department of theatre and film offers baccalaureate programs in both theatre and film/video. In addition, four minors are offered – theatre, film/video, history and criticism of drama, and cinema studies. Certification in drama/theatre for majors in elementary or secondary education is offered through the College of Education. Consult the College of Education and theatre advisers about this certification.

The bachelor of arts programs in theatre and film/video 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 either 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.

## General Guidelines for the Bachelor of Arts

No more than 50 hours in the major courses are allowed for the bachelor of arts major. Any 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 majors 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 |
| FILM | 4940 | Internship .....           | 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. Minimum GPA of 3.3 in film/video courses;
2. Minimum cumulative GPA of 3.0; and
3. Completion of 12 hours in film/video

**B. Requirements:** A student must have completed nine 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 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 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 | 2000 | Theatre Practicum .....       | 1 |
| THR   | 2200 | Perspectives on Theatre ..... | 3 |
| THR   | 2610 | Acting I .....                | 3 |
| *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 |
| THR   | 4500 | Professional Aspects .....    | 2 |

\*May be taken more than once.

\*\* Must be taken twice.

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, 3610, 3620, 3640, 3650, 4620, 4640 and 4990.

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

1. Minimum GPA of 3.3 in theatre courses;
2. Minimum cumulative GPA of 3.0; and
3. Completion of 12 hours in theatre.

**B. Requirements:** A student must have completed a minimum of nine 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 Minors

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

#### Minor in Theatre

##### 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 .....                | 3 |
| THR | 2640 | Voice and Movement .....      | 2 |
| THR | 3110 | World Theatre I .....         | 3 |
| THR | 3120 | World Theatre II .....        | 3 |
| THR | 4110 | Modern American Theatre ..... | 3 |

#### Minor in History and Criticism of Drama

##### 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.

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.

#### Minor in Film/Video

##### 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\*.

##### Choose 1 or 2 courses from production:

FILM 3310, 3320, 3350, 3360\*, 3730, 4320\*, 4350.

\*May be taken more than once.

## Minor in Cinema Studies

### 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.

## 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 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; and SOC 2410, 4440 or 4450.
2. Four additional core courses (12 hours) from: ECON 4050; GEPL 3460, 4530; HIST 3250, 3400 and 3410; PSC 2300; and SOC 3600, 3640, 4340 and 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 the adviser.

## Department of Women's and Gender Studies

*Jamie Barlowe, interim chair and 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 goals. 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, 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 and programs include:

|                        |                          |
|------------------------|--------------------------|
| Africana studies       | 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 |
| History                |                          |

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. Note that women's and gender studies courses may be used to satisfy the College of Arts and Sciences distributive requirements in either humanities or social sciences, depending upon the area of concentration.

## Requirements for the Undergraduate Major

The total of 33 hours (30 for dual majors) required for the major in women's and gender studies must include:

### Women's and Gender Studies core requirements (18 hours):

|      |      |  |
|------|------|--|
| WGST | 1150 | Proseminar I   |
| WGST | 2150 | Proseminar II  |
| WGST | 3010 | Issues in Women's Studies  |
| WGST | 4870 | Feminisms (other options are sometimes offered)                              |
| WGST | 4890 | Women's Studies Research and Methodologies                                   |
| WGST | 4900 | Senior Seminar   |
| WGST | 4940 | Internship in Women's Studies (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 2000 level and above or courses in other departments or programs at the 2000 level and above must be approved by the faculty adviser and department chair.

## Concentration in Law and Social Thought

Undergraduates in women's and gender studies who wish to study legal ideas, institutions, and procedures from the perspective of gender may pursue a concentration in law and social thought by taking the following: LST 2010, 2500 (2 hours), and 4900 in partial fulfillment of the women's and gender studies major electives, and LST 4940 (3 to 6 hours) to satisfy the women's and gender studies internship requirement.

## 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. The requirements for related hours 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.

## Honors in Women's and Gender Studies

A student majoring in women's and gender studies who is seeking departmental honors should make for mal application near the end of the sophomore year. The following requirements must be met in order to earn the departmental honors designation at the time of graduation: minimum cumulative GPA of 3.3 overall and 3.5 in WGST courses; WGST 4910 Thesis for three hours (including oral examination by a departmental honors committee); and two advanced WGST 3000- to 4000-level elective courses for honors credit.

## Requirements for the Minor

The total of 23 hours required for the minor in women's and gender studies must include:

### Women's and Gender Studies core requirements (11 hours):

|           |   |
|-----------|---|
| WGST 1150 | Proseminar I                                    |
| WGST 3010 | Issues in Women's Studies                       |
| WGST 4870 | Feminisms (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 2000 level and above or courses from other departments and programs at the 2000 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 and director of Art History  
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 the 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, professor  
B.F.A., Clark University; M.F.A., Syracuse University

**Peter Patchen**, 1993, associate professor  
B.A., University of Colorado; M.F.A., University of Oregon

**Richard Putney**, 1979, associate professor and associate chair  
B.A., M.A., Ph.D., University of Delaware

**Mysoon Rizk**, 2000, assistant professor  
B.A., Oberlin College; B. S., A.M., Ph.D., University of Illinois at Urbana - Champaign

**Arturo Rodriguez**, 2001, assistant professor  
B.F.A., Kansas City Art Institute; M.F.A., Indiana University - Bloomington

## EMERITUS FACULTY

**Duane Bastian**, 1971, professor emeritus, 1999  
A.B., M.A., Eastern Michigan University; M.Ed., Ph.D., The University of Toledo

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

## LECTURERS

**Dustyn Bork**, 2004, lecturer  
B.F.A., University of Michigan; M.F.A., Indiana University

**James Hightower**, 2004, lecturer  
M. Ed., The University of Toledo

**Karen Roderick-Lingeman**, 2003 lecturer  
B. Ed., The University of Toledo; M.F.A., University of North Dakota

### PRESTIGE APPOINTMENTS (2005)

**Don Bacigalupi**, Research Professor of Art History  
Director, The Toledo Museum of Art

**Carolyn Putney**, Research Professor of Art History  
Curator of Asian Art and Director of Collections, The Toledo Museum of Art

## Department of Biological Sciences

**Brian P. Ashburner**, 2001, assistant professor  
B.A., St. Anselm College; Ph.D. Loyola University of Chicago

**William L. Bischoff Jr.**, 1972, associate professor and interim director of honors  
B.A., M.A., Miami University; Ph.D., University of North Carolina

**Deborah Chadee**, 2005, assistant professor  
B.S., University of Manitoba; Ph.D., University of Manitoba

**Charles Creutz**, 1973, associate professor  
A.B., Columbia University; M.S., Ph.D., University of Pennsylvania

**Fan Dong**, 2002, associate professor  
M.D., Suzhou Medical College; Ph.D., Erasmus University

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

**Emilio Duran**, 2004, assistant professor  
B.S., Ph.D., The University of Toledo

**Alan G. Goodridge**, 2002, professor, provost and executive vice president for academic affairs and enrollment services  
B.S., Tufts University, M.S., Ph.D., University of Michigan

**John Gray**, 1998, associate 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  
A.B., Holy Cross College; M.S., Ph.D., University of Massachusetts

**Douglas W. Leaman**, 2001, associate professor  
B.S., M.S., The Ohio State University, Ph.D., University of Missouri

**Scott M. Leisner**, 1993, associate professor  
B.S., University of Wisconsin; Ph.D., Purdue University

**John Plenefisch**, 1996, associate professor  
B.S., University of Connecticut; Ph.D., Massachusetts Institute of Technology

**Donald B. Pribor**, 1965, professor  
B.S., St. Louis University; M.S., Ph.D., Catholic University of America

**Anthony Quinn**, 2001, associate professor  
B.A., Mid-American Nazarene College, M.S., University of Missouri - Saint Louis, Ph.D., University of Oklahoma Health Science Center

**Lirim Shemshedini**, 1993, associate professor  
B.S., University of Michigan; Ph.D., University of Vermont

**William Taylor**, 2003, assistant professor  
B.S., University of Winnipeg; Ph.D., University of Manitoba

**Deborah Vestal**, 2002, associate professor  
B.S., Bowling Green State University; Ph.D., Syracuse University

### EMERITUS FACULTY

**Louis Glatzer**, 1973, professor emeritus, 1999  
A.B., Dartmouth College; M.S., North Carolina State University; Ph.D., The University of Texas - Austin

**Lloyd A. Jones**, 1972, professor emeritus, 1999  
B.S., M.S., The Ohio State University; Ph.D., Purdue University

**Woon H. Jyung**, 1964, professor emeritus, 1993  
B.S., Seoul National University; M.S., Ph.D., Michigan State University

**Harold H. Lee**, 1967, professor emeritus, 1999  
A.B., Oklahoma Baptist University; M.S., Ph.D., University of Tennessee

**Maimon Nasatir**, 1966, professor emeritus, 1990  
Ph.B., University of Chicago; Ph.D., University of Pennsylvania

**Clifford J. Smith**, 1965, professor emeritus, 1993  
B.S., Cornell University; Ph.D., University of Maryland

### ASSOCIATED FACULTY

**Paul Erhardt**, 1994, adjunct professor and professor of medicinal and biological chemistry, and director of the center for drug design and development  
B.A., Ph.D., University of Minnesota

**Richard Hudson**, 1998, adjunct professor, professor of medicinal and biological chemistry  
B. A., Kalamazoo College; Ph.D., University of Chicago

**Karlyn Lange**, 1992, adjunct instructor  
B.S., Bowling Green State University; M.T., Riverside Hospital School of Medical Technology

**Marcia McInerney**, 1998, adjunct professor and chair of medicinal and biological chemistry  
B.A., University of Connecticut; M.S., Case Western Reserve University; Ph.D., University of Michigan

**William S. Messer Jr.**, 1998, adjunct professor, professor and chair of pharmacology  
B.S., Springfield College; Ph.D., University of Rochester

**Keith K. Schlender**, 1970, affiliate faculty professor and dean of the Graduate School, Medical College of Ohio  
B.S., Westmar College; M.S., Ph.D., Michigan State University

## 82 College of Arts and Sciences

**Sharon Schnarre**, 1990, adjunct instructor and adviser  
B.S., Bowling Green State University; M.S., Wright State University

**Carol Stepien**, 2004, adjunct professor, professor of earth, ecological and environmental sciences and director of the Lake Erie Center  
B.S., Bowling Green University; M.S., Ph.D., University of Southern California

**Kathy Wall**, 1998, adjunct associate professor and associate professor of medicinal and biological chemistry  
B.S., Montana State University; Ph.D., University of California at Berkeley

### Department of Chemistry

**Jared L. Anderson**, 2005, assistant professor  
B.S., South Dakota State University; Ph.D., Iowa State University

**Bruce A. Averill**, 2000, Distinguished University Professor  
B.S., Michigan State University; Ph.D., Massachusetts Institute of Technology

**Eric W. Findsen**, 1988, associate professor  
B.S., Michigan State University; M.S., University of California; Ph.D., University of New Mexico

**Max O. Funk**, 1978, professor  
B.S., The Pennsylvania State University; Ph.D., Duke University

**Dean M. Giolando**, 1988, professor  
B.S., Rochester Institute of Technology; Ph.D., University of Illinois

**Xiche Hu**, 1998, associate professor  
B.S., M.S., Wuhan University; Ph.D., Wayne State University

**Xuefei Huang**, 2002, assistant professor  
B.S., University of Science and Technology of China; Ph.D., Columbia University

**Andrew D. Jorgensen**, 1988, associate professor  
B.S., Quincy College; Ph.D., University of Illinois - Chicago

**Jon R. Kirchhoff**, 1989, professor and associate chair  
B.S., State University of New York - Cortland; Ph.D., Purdue University

**Yun-Ming Lin**, 2003, assistant professor  
B.S., M.S., Beijing Normal University; Ph.D., University of Notre Dame

**Cora Lind**, 2003, assistant professor  
Prediploma, Bergische Universität Wuppertal; M.S., Ph.D., Georgia Institute of Technology

**Mark R. Mason**, 1998, associate professor  
B.S., Bowling Green State University; Ph.D., Iowa State University

**Timothy C. Mueser**, 2000, assistant professor  
B.S., Eureka College; Ph.D., University of Nebraska

**A. Alan Pinkerton**, 1984, professor and chair  
Grad. RIC, Brighton College of Tech; Ph.D., University of Alberta

**Donald R. Ronning**, 2005, assistant professor  
B.S., University of Minnesota; Ph.D., Texas A & M University

**Joseph A. E. Schmidt**, 2004, assistant professor  
B.S., Kansas State University; Ph.D., University of California-Berkeley

**Steven J. Sucheck**, 2005, assistant professor  
B.S., University of Toledo; Ph.D., University of Virginia

**Ronald E. Viola**, 2000, professor  
B.S., Fordham University; M.S., Ph.D., Pennsylvania State University

### EMERITUS FACULTY

**Leonard E. Brady**, 1966, professor emeritus, 1990  
B.S., Wagner College; M.S., North Carolina State University; Ph.D., Michigan State University

**John Chrysochoos**, 1967, professor  
Diploma of Chemistry, University of Athens; M.S., Ph.D., University of British Columbia

**Julian A. Davies**, 1981, Distinguished University Professor emeritus  
B.Sc., Ph.D., University of London

**Jimmie G. Edwards**, 1967, professor emeritus, 2000  
B.S., Central State College; Ph.D., Oklahoma State University

**Alfred Foster**, 1946, professor emeritus, 1985  
B.A., College of Wooster; M.A., Ph.D., The Ohio State University

**James L. Fry**, 1969, professor emeritus, 1999  
B.S., Bowling Green State University; Ph.D., Michigan State University

**James E. Gano**, 1967, professor emeritus, 2000  
B.S., Miami University; M.S., Ph.D., University of Illinois

**Robert J. Niedzielski**, 1965, professor emeritus, 1999  
B.S., Aquinas College; M.S., Ph.D., University of Illinois

**Gordon A. Parker**, 1965, professor emeritus, 1992  
B.S., University of Michigan; M.S., Ph.D., Wayne State University

**Roy D. Stein**, 1975, professor emeritus, 1999  
B.A., M.S., Wayne State University; M.A., Bowling Green State University

**Lancelot C.A. Thompson**, 1958, professor emeritus, 1988  
B.S., Morgan State University; Ph.D., Wayne State University

**Frank Walmsley**, 1962, professor emeritus, 1987  
B.S., University of New Hampshire; Ph.D., University of North Carolina

### ASSOCIATED FACULTY

**Illir Beta**, 2005, visiting assistant professor  
B.S., University of Tirana, Albania; Ph.D., University of Leipzig, Germany

**Richard T. Carroll Jr.**, 2005, visiting assistant professor  
B.A., M.S., Ph.D., University of Toledo



**Alvin Compaan**, 1987, adjunct professor, professor of physics  
A.B., Calvin College; M.S., University of Chicago; Ph.D., University of Chicago

**Larry Curtis**, 1963, adjunct professor, Distinguished University Professor of physics  
B.S., The University of Toledo; M.S., Ph.D., University of Michigan

**Jeffrey Dunn**, 1998, research professor  
B.Sc., Ph.D., Bath University of Technology  
B. Leif Hansen, 2004, research assistant professor  
B.S., M.S., Ph.D., University of Utah

**Richard A. Hudson**, 1985, joint professor of chemistry and medicinal and biological chemistry  
B.A., Kalamazoo College; Ph.D., University of Chicago

**Yong-Wah Kim**, 1995, research assistant professor  
B.A., Berea College; M.A., Ph.D., Washington University

**Kristin Kirschbaum**, 1991, research associate professor  
M.S., Ph.D., Westfälische Wilhelms Universität (Münster)

**Edith P. Klingberg**, 2002, research assistant professor  
B.S., University of Maryland; Dipl.-Chem., Universität des Saarlandes, Germany

**Ernest Lippert Jr.**, adjunct professor  
B.S., M.S., University of Oklahoma - Norman; Ph.D., University of Leeds

**Nina I. McClelland**, 2004, adjunct professor  
B.S., M.S., University of Toledo; Ph.D., University of Michigan

**Steven H. Norton**, 2005, visiting assistant professor  
M.A., Johns Hopkins University; M.S., Ph.D., University of Pittsburgh

**James T. Slama**, 2003, joint professor of chemistry and medicinal and biological chemistry  
A.B., Cornell University; Ph.D., University of California-Berkeley  
Treasure R. Sucheck, 2005, visiting assistant professor  
B.S., Defiance College; Ph.D., The University of Toledo

**Viranga Tillekeratne**, 2002, research assistant professor  
B.S., University of Colombo, Sri Lanka; Ph.D., Oxford University

**Elizabeth Zhurova**, 2005, research assistant professor  
M.S., Mendeleev University of Chemical Technology, Russia; Ph.D., Karpov Institute of Physical Chemistry, Russia

## Department of Communication

**James B. Benjamin**, 1986, professor and chair  
B.S., Dakota State College; M.A., Ph.D., The Pennsylvania State University

**Amy Capwell-Burns**, 2003, assistant professor  
B.A., Baldwin-Wallace College; M.A., Cleveland State University; Ph.D., Bowling Green State University

**Joseph Clark**, 1991, lecturer  
B.A., University of California - Berkeley; M.A., California State University - Northridge

**Paul A. Fritz**, 1978, associate professor  
B.A., Capital University; M.A., Ph.D., Bowling Green State University

**Paulette D. Kilmer**, 1997, associate professor  
B.A., M.A., University of Wisconsin; M.A., University of Kansas; Ph.D., University of Illinois

**Richard J. Knecht**, 1971, professor  
B.S., University of Dayton; M.A., Miami University; Ph.D., The Ohio State University

**Jacqueline Layng**, 1997, associate professor  
B.A., M.A., Ed.D., Northern Illinois University

**Paul A. Many**, 1980, professor  
B.A., St. John's University; M.A., The Ohio State University; M.F.A., Bowling Green State University; Ph.D., Ohio University

**Brian A. Patrick**, 2001, assistant professor  
B.A., M.A., University of Detroit; Ph.D., University of Michigan

**Donald E. Reiber**, 1979, assistant professor  
B.A., M.A., The Ohio State University

**Fatima A. Shousher**, 2004, lecturer  
B.A., University of Toledo; M.A., Bowling Green State University

**David E. Tucker**, 1987, associate professor  
B.A., Wittenberg University; M.A., Ph.D., Bowling Green State University

## EMERITUS FACULTY

**Carlton O. DeFosse**, 1979, professor, 1999  
B.S., M.S., Western Illinois University; Ph.D., The University of Toledo

**Ivan Harvey**, 1962, professor, 1986  
B.A., M.A., B.Ed., The University of Toledo; Ph.D., University of Michigan

**Bernice C. Marti**, 1969, professor, 1983  
B.A., M.A., Michigan State University; Ed.D., The University of Toledo

**Norbert Mills**, 1974, associate professor, 2005  
B.A. Winona State College; M.A., Ph.D., Bowling Green State University

**Charles G. Russell**, 1975, professor, 1999  
B.S., M.S., Ph.D., Southern Illinois University

**Ethel M. Wilcox**, 1972, professor, 1999  
B.A., Southern Oregon College; M.A., Ph.D., Bowling Green State University

## ASSOCIATED FACULTY

**Raymond Jackson**, 1994, adjunct instructor and academic adviser  
B.A., The University of Toledo; M.A., University of California - Santa Barbara

## 84 College of Arts and Sciences

**Terrance M. Teagarden**, 1986, lecturer  
B.S., Xavier University; M.Ed., The University of Toledo

### Department of Earth, Ecological and Environmental Sciences

**Jonathon M. Bossenbroek**, 2005, assistant professor  
B.S., Calvin College; M.S., University of Wisconsin; Ph.D., Colorado State University

**Vernon M. Brown**, 1980, associate professor  
B.S., Southwest Missouri State College; M.S., University of Oklahoma; Ph.D., University of Missouri - Rolla

**Mark J. Camp**, 1976, associate professor  
B.S., M.S., The University of Toledo; Ph.D., The Ohio State University

**Jiquan Chen**, 2001, professor  
B.S., Inner Mongolia University; M.S., Chinese Academy of Science; Ph.D., University of Washington

**Daryl F. Dwyer**, 2001, associate professor  
B.S., Wilkes College; M.A., State University of New York at Buffalo; Ph.D., Michigan State University

**Timothy G. Fisher**, 2003, associate professor  
B.S., University of Alberta; M.S., Queen's University; Ph.D., University of Calgary

**Stephen L. Goldman**, 1971, professor and director of the Plant Science Research Center  
B.S., Brooklyn College; M.A., Ph.D., University of Missouri

**Johan F. Gottgens**, 1993, associate professor  
B.S., M.S., Utrecht State University; Ph.D., University of Florida

**James A. Harrell**, 1979, professor  
B.S., California State University - Fullerton; M.S., University of Oklahoma; Ph.D., University of Cincinnati

**Scott A. Heckathorn**, 2003, assistant professor  
B.S., Wichita State University; M.S., Ph.D., University of Illinois

**David E. Krantz**, 2001, associate professor  
B.S., College of William and Mary; M.S., Ph.D., University of South Carolina

**James A. Martin-Hayden**, 1994, associate professor  
B.A., University of Maine; M.S., Ph.D., University of Connecticut

**Christine M. Mayer**, 2003, assistant professor  
B.S., M.S., University of Illinois at Urbana - Champaign; Ph.D., Cornell University

**Daryl L. Moorhead**, 1999, associate professor  
B.S., The Ohio State University; M.S., Texas A&M University; Ph.D., University of Tennessee

**Michael W. Phillips**, 1975, professor and chair  
B.S., North Carolina State University; Ph.D., Virginia Polytechnic Institute

**William Von Sigler**, 2003, assistant professor  
B.S., Purdue University; Ph.D., Purdue University

**Alison L. Spongberg**, 1994, associate professor  
B.A., Ohio Wesleyan University; M.A., Temple University; Ph.D., Texas A&M University

**Carol A. Stepien**, 2004, professor and director of the Lake Erie Research Center  
B.S., Bowling Green State University; M.S., Ph.D., University of Southern California

**Donald J. Stierman**, 1994, associate professor  
B.S., State University of New York - Brockport; M.S., Ph.D., Stanford University

**Elliot J. Tramer**, 1969, professor and associate chair  
A.B., Case Western Reserve University; Ph.D., University of Georgia

**Michael N. Weintraub**, 2005, assistant professor  
B.A., Bard College; M.A., Ph.D., University of California at Santa Barbara

#### EMERITUS FACULTY

**Stuart L. Dean**, 1967, professor emeritus, 1993  
B.S., M.S., Ph.D., West Virginia University

**Lou Glatzer**, 1973, professor emeritus, 1999  
A.B., Dartmouth College; M.S., North Carolina State University; Ph.D., The University of Texas - Austin

**Craig B. Hatfield**, 1964, professor emeritus, 1999  
B.S., M.A., Ph.D., Indiana University

**Lon C. Ruedisili**, 1974, professor emeritus, 1993  
B.S., M.S., Ph.D., University of Wisconsin

#### ASSOCIATED FACULTY

**Thomas B. Bridgeman**, 2003, research assistant professor  
B.S., Miami University (Ohio); M.S., The Ohio State University; Ph.D., University of Michigan

**Kevin Czajkowski**, 1998, associate professor  
B.S., State University of New York at Oneonta; Ph.D., University of Michigan

**Jonathan M. Frantz**, 2003, research assistant professor  
B.S., Virginia Polytechnic Institute and State University; M.S., Purdue University; Ph.D., Utah State University

**Charles R. Krause**, 2003, research professor  
B.S., M.S., Ph.D., The Ohio State University

**Patrick Lawrence**, 1999, assistant professor  
B.S., University of Guelph; M.A., Ph.D., University of Waterloo

**James C. Locke**, 2003, research professor  
B.S., The Pennsylvania State University; M.S., Purdue University; Ph.D., Purdue University

**Parani Madasamy**, 2003, research assistant professor  
B.S., M.S., Tamil Nadu Agricultural University; Ph.D., Anna University

**Asko Noormets**, 2001, research assistant professor  
B.S., Tartu University; M.S., Ph.D., Michigan Technological University

**Edward F. Roseman**, 2005, research assistant professor  
B.S., Cornell University; M.S., Ph.D., Michigan State University

**Sairam Rudrabhatla**, 2002, research associate professor  
B.S., Andhra University; M.S., University of Baroda; Ph.D., Osmania University

**Rex M. Strange**, 2004, research assistant professor  
B.S., University of Southern Indiana; M.S., Southern Illinois University; Ph.D., University of Alabama

**Ge Sun**, 2003, research assistant professor  
B.S., M.S., Beijing Forestry University; Ph.D., University of Florida

**Pan Yude**, 2001, research associate professor  
B.S., Qingdao University; M.S., Chinese Academy of Science; Ph.D., State University of New York at Syracuse

**Shulu Zhang**, 2003, research assistant professor  
B.S., M.S., Lanzhou University; Ph.D., University of East Anglia

**Daolan Zheng**, 2002, research assistant professor  
B.S., M.S., Northeast Normal University; M.S., Central Washington University; Ph.D., University of Montana

## Department of Economics

**David C. Black**, 1990, associate professor  
B.A., M.A., Ph.D., State University of New York - Buffalo

**Hsin Chang**, 1989, associate professor  
B.A., Ph.D., Fudan University; M.A., University of California - Berkeley; M.A., Ph.D., University of Michigan

**Michael R. Dowd**, 1989, associate professor and chair  
B.A., M.A., Ph.D., State University of New York - Buffalo

**Kevin Egan**, 2005, assistant professor  
B.A., Central College; Ph.D., Iowa State University

**Kristen Keith**, 1994, associate professor  
B.A., University of Montana; M.A., Ph.D., The Ohio State University

**James P. LeSage**, 1988, professor  
B.A., M.A., The University of Toledo; Ph.D., Boston College

**John E. Murray**, 1994, associate professor  
B.A., Oberlin College; M.S., University of Cincinnati; M.A., Ph.D., The Ohio State University

### EMERITUS FACULTY

**Alan Gleason**, 1970, professor emeritus, 1984  
A.B., Princeton University; M.A., University of Rochester; Ph.D., Massachusetts Institute of Technology

**Julius Gylys**, 1967, professor, 1993  
B.S., M.B.A., University of Detroit; M.A., Ph.D., Wayne State University

**Michael Magura**, 1969, professor, 1999  
B.A., St. Vincent College; M.A., Ph.D., Boston College

**Raj Roy**, 1963, professor, 1999  
B.A., M.A., Calcutta University; Ph.D., Wayne State University

**Edward Shapiro**, 1967, professor, 1989  
B.A., The University of Toledo; M.A., The Ohio State University; A.M., Ph.D., Harvard University

**Frederick Tank**, 1970, associate professor, 1999  
B.B.A., University of Georgia; M.A., The University of Toledo; Ph.D., Wayne State University

**Steven Weiss**, 1968, professor, 1999  
B.A., M.A., Ph.D., University of Colorado

**Calman R. Winegarden**, 1962, research professor, 1989  
B.S., American University; M.A., Ph.D., Case Western Reserve University

**Donald J. Yankovic**, 1968, professor, 1989  
B.A., Monmouth College; Ph.D., University of Pittsburgh

## Department of English Language and Literature

**Samir Abu-Absi**, 1968, professor  
B.A., American University of Beirut; M.A., Ph.D., Indiana University

**Rane R. Arroyo**, 1997, professor  
B.A., M.A., University of Illinois - Springfield; Ph.D., University of Pittsburgh

**Thomas E. Barden**, 1976, professor and director of the Honors Program  
B.A., M.A., Ph.D., University of Virginia

**John W. Boening**, 1969, professor  
B.A., Pace College; M.A., University of Maryland; Ph.D., Indiana University

**C. Jane Bradley**, 1990, associate professor  
B.A., University of Tennessee; M.A., Syracuse University; M.F.A., Vermont College

**Douglas W. Coleman**, 1989, professor  
B.A., M.A., Ph.D., University of Florida

**Daniel Compota**, 1993, assistant professor  
A.S., Monroe County Community College; B.A., M.Ed., Ph.D., The University of Toledo

**Anthony Edgington**, 2005, assistant professor,  
B.A., University of Pittsburgh; M.A. Slippery Rock University; Ph.D., University of Louisville

**David L. Erben**, 1997, assistant professor  
B.A., M.A., Ph.D., University of South Florida

## 86 College of Arts and Sciences

**Christina M. Fitzgerald**, 2003, assistant professor  
B.A., Columbia University; M.A., Ph.D., UCLA

**William N. Free**, 1966, professor  
B.A., Yale University; M.A., Indiana University; Ph.D., Yale University

**Timothy Geiger**, 1997, associate professor  
B.A., West Chester University of Pennsylvania; M.F.A., University of Alabama

**Carmen Gillespie**, 2002, associate professor  
B.A., M.A., James Madison University; Ph.D., Emory University

**Melissa Valiska Gregory**, 2002, assistant professor  
B.A., College of Wooster; M.A., Ph.D., Indiana University

**Clarence B. Lindsay Jr.**, 1971, professor  
B.A., Illinois State University; Ph.D., University of Minnesota

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

**Sara Lundquist**, 1993, associate professor and chair  
B.A., Boston University; B.S., Virginia Commonwealth University; Ph.D., Boston College

**Andrew Mattison**, 2005, assistant professor  
A.B., Vassar College, M.A., Ph.D., Brandeis University

**Carol Nelson-Burns**, 1989, associate professor  
B.A., Mount Union College; M.A., Youngstown State University, Ph.D., The University of Toledo

**Melinda Reichelt**, 1997, associate professor  
B.A., Anderson University; M.A., Ph.D., Purdue University

**Russell J. Reising**, 1994, professor  
B.A., M.A., Miami University; Ph.D., Northwestern University

**Barbara Schneider**, 2001, assistant professor  
B.A., Gonzaga University; M.A., Ph.D., Wayne State University

**Dorothy Siegel**, 1977, associate professor  
B.A., Brandeis University; Ph.D., Massachusetts Institute of Technology

**Skaidrite Stelzer**, 1985, assistant professor and associate director of the Honors Program  
B.A., M.A., Western Michigan University; Ph.D., Kent State University

**Roberta M. Thornton**, 1982, assistant professor  
B.S., M.A., Central Michigan University

**Robert S. Turley**, 1989, associate professor  
B.A., Oral Roberts University; M.A., University of Tulsa; Ph.D., Florida State University

**Matthew H. Wikander**, 1987, professor  
B.A., Williams College; B.A., M.A., Cambridge University; Ph.D., University of Michigan

## EMERITUS AND SUPERANNUATE FACULTY

**Harriet F. Adams**, 1972, associate professor, 2000  
A.B., M.A., Bryn Mawr College; Ph.D., The Ohio State University

**William K. Bortorff**, 1968, professor, 1992  
B.A., Bowling Green State University; M.A., Western Reserve University; Ph.D., Brown University

**David Cheney**, 1965, professor, 1992  
B.A., M.A., University of Utah; M.A., Harvard University; Ph.D., University of Iowa

**Lawrence J. Dessner**, 1969, professor, 1999  
B.A., Yale University; M.A., Ph.D., New York University

**Ruth Friedman**, 1968, professor, 1985  
B.Ed., M.A., The University of Toledo

**Alfonso J. Grande**, 1964, professor, 1990  
B.A., M.A., Seton Hall University

**E. Richard Gregory Jr.**, 1967, professor, 1992  
B.A., The University of Texas; M.A., Rice University; Ph.D., University of Oregon

**James K. Larson**, 1965, associate professor, 1993  
B.A., M.A., Columbia University

**William McDonald Jr.**, 1955, professor, 1993  
B.A., M.A., University of Alabama; Ph.D., Northwestern University

**Barbara J. McKinney**, 1970, assistant professor, 1993  
B.A., Colorado State College; M.S., University of Wisconsin; Ph.D., University of Minnesota

**Michael Manheim**, 1961, professor, 1987  
B.A., Columbia College; M.A., Ph.D., Columbia University

**Wallace D. Martin**, 1961, professor, 1986  
B.A., Oberlin College; M.A., Stanford University; Ph.D., University of London

**Jon F. Patton**, 1968, associate professor, 1999  
B.A., Kent State University; M.A., University of Oregon; Ph.D., Ohio University

**Robert S. Rudolph**, 1965, professor, 1999  
B.A., Temple University; M.A., Ph.D., University of Wisconsin

**David Q. Smith**, 1967, associate professor, 1999  
B.A., Columbia University; M.A., New York University; Ph.D., University of Illinois

**Elizabeth Steele**, 1968, professor, 1981  
B.A., Butler University; M.A., University of New Mexico; Ph.D., Bowling Green State University

**Noel Stock**, 1969, professor, 1991

**Guy A. Szuberla**, 1969, professor, 1999  
A.B., Purdue University; M.A., Roosevelt University; Ph.D., University of Minnesota

**Herbert P. Zornow**, 1961, associate professor, 1989  
B.A., Wesleyan University; M.A., Yale University

## LECTURERS

**Marykay Bryan**, 2004 lecturer  
B.A., M.A., The University of Akron

**Michael R. Catanzaro**, 2002, lecturer  
B.A., Temple University; M.A., Northeast Louisiana University; Ph.D.,  
The University of Toledo

**Michelle Davidson**, 2004, lecturer  
B.A., M.A., The University of Toledo

**Michael S. Dubose**, 2005, lecturer  
B.A., M.A., University of North Florida, Ph.D., Bowling Green State  
University

**Joseph Helminski**, 2004, lecturer  
B.A., University of Michigan, M.A., Ph.D., Wayne State University

**Michael D. Hill**, 2004, lecturer  
B.A., M.A., Eastern Kentucky University, Ph.D., Wayne State Univer-  
sity

**Michael A. Hiser**, 1990, senior lecturer  
B.A., M.A., The University of Toledo

**Susan E. Hoehing**, 1989, senior lecturer  
B.A., Georgetown University; M.A., The University of Toledo

**Robert S. Imbur**, 2005, lecturer  
B.A., M.F.A., University of Notre Dame

**Kevin W. Jett**, 2003, lecturer  
B.A., M.A., Indiana State; Ph.D., The University of Toledo

**Rosemary Johnson-Kurek**, 2003, lecturer  
B.A., M.A., Bowling Green State University; Ph.D., The University of  
Toledo

**Laura S. Keller**, 2005, lecturer  
B.A., M.A., The University of Toledo

**Norene K. Lindsay**, 1989, senior lecturer  
B.S., University of Minnesota; M.A., The University of Toledo

**Barbara Alice Mann**, 2003, lecturer  
B.A., M.A., Ph.D., The University of Toledo

**John W. Metz**, 1989, lecturer  
B.A., Slippery Rock University; M.A., The University of Toledo

**Stephanie J. Moldawsky**, 2003, lecturer  
B.A., M.A., The University of Toledo

**Shari L. O'Brien**, 1988, senior lecturer  
B.A., The University of Toledo; M.A., Ph.D., University of Michigan;  
J.D., The University of Toledo

**Sabrina Peters-Whitehead**, 2004, lecturer  
B.A., Carson-Newman College, M.A., Virginia Polytechnic and State  
University, Ph.D., Texas Tech University

**Michael V. Piotrowski**, 1988, senior lecturer  
B.A., Siena Heights College; M.A., The University of Toledo

**Patricia M. Reid**, 1991, senior lecturer  
B.A., State University of New York - Plattsburg; M.A., State University  
of New York - Binghamton

**Linda A. Schuller**, 1989, senior lecturer  
B.A., Kenyon College; M.A., Ph.D., The University of Toledo

**Suzanne E. Smith**, 1989, senior Lecturer  
B.A., State University of New York - Brockport; M.A., The University  
of Toledo

**Mary B. VanNess**, 1989, senior lecturer  
B.A., M.A., The University of Toledo

**Paul W. Wise**, 2004, lecturer  
B.A., Northern Michigan University, M.A., Bowling Green State Univer-  
sity, Ph.D., Michigan State University

**Sara J. Yaklin**, 2004, lecturer  
B.A., Hiram College; M.A., University of Toledo

## Department of Foreign Languages

**An Chung Cheng**, 1998, associate professor  
B.A., Fu Jen Catholic University; M.A., Ohio University; Ph.D., University  
of Illinois at Urbana - Champaign

**Friederike Emonds**, 1994, associate professor of German  
M.A., Washington University; Ph.D., University of California -  
Davis

**Joseph A. Feustle Jr.**, 1972, professor of Spanish  
B.A., M.A., Ph.D., University of Maryland

**Ruth Ann Hottell**, 1988, professor of French  
B.A., Western Kentucky University; M.A., University of Louisville; Ph.D.,  
University of Illinois at Urbana - Champaign

**Oscar Lepeley**, 1996, associate professor of Spanish  
B.A., Universidad de Santiago; M.A., Ph.D., University of Illinois at  
Urbana - Champaign

**Juan Martin**, 1994, assistant professor of Spanish  
B.A., Complutense University of Madrid; M.A., Ph.D., University of  
Southern California

**Linda Rouillard**, 2001, assistant professor of French  
B.A., M.A.T., University of Vermont; Ph.D., University of Pittsburgh

**Debra L. Stoudt**, 1986, professor of German and interim associate dean  
for the arts and humanities  
B.S., West Chester University of Pennsylvania; M.A., Ph.D., University  
of North Carolina - Chapel Hill

**Kathleen Thompson-Casado**, 1993, associate professor of Spanish  
B.A., M.A., Ph.D., The Ohio State University

## 88 College of Arts and Sciences

**Antonio Varela**, 1982, associate professor of Spanish and chair  
B.A., San Francisco State University; M.A., Ph.D., Indiana University

### EMERITUS FACULTY

**Burley D. Channer**, 1970, professor of German, 1993  
B.A., University of Kansas; M.A., Middlebury College; Ph.D., The Ohio State University

**Andrew M. Chermak**, 1965, professor of French, 1993  
B.A., LaSalle College

**Richard M. Krill**, 1968, professor of classics, 1992  
A.B., A.M., John Carroll University; Ph.D., St. Louis University

**Bonnie Mestre**, 1966, professor of Spanish, 1983  
B.A., B.Ed., The University of Toledo; M.A., Purdue University

**Ernesto Moreno**, 1966, professor of Spanish, 1982  
Doctor of Pedagogy, University of Havana; M.A., Ph.D., University of Minnesota

**Juergen G. Mudrow**, 1966, professor of German, 1993  
B.S., Utah State University; M.A., University of Minnesota

**Guessler M. Normand**, 1970, professor of French, 1999  
Diplome, Universite d'Aix - Marseille; M.A., Ph.D., University of Kentucky

**Orlando M. Reyes-Cairo**, 1969, professor of Spanish, 1989  
B.A., University of South Dakota; M.A., University of Minnesota; Ph.D., University of Michigan

**Timothy M. Scanlan**, 1970, professor of French, 1999  
B.A., University of Akron; M.A., Ph.D., Case Western Reserve University

**Uta I. Schaub**, 1969, professor of German, 1999  
Staatsexamen, University of Heidelberg; Assessorexamen, Studienseminar Heidelberg; Ph.D., Rice University

### LECTURERS

**Katherine Best**, 2004, lecturer  
B.S., M.A., Bowling Green State University

**Warren Dick**, 2003, lecturer  
B.A., M.A., George Washington University; Ph.D., Ohio State University

**Joseph Y. Hara**, 1990, lecturer  
B.A., Meiji Gakain University; Th.D., Lexington Theological Seminary

**Michael A. Kistner**, 1994, lecturer  
B.A., M.A., Bowling Green State University

**Deirdre Pettet**, 2004, lecturer  
B.A., Mills College; M.A., Yale University

**Laurie Puszczewicz**, 2005, lecturer  
B.A., M.A., The University of Toledo

**Dagmar T. Varela**, 1990, lecturer  
B.A., Wright State University; M.A., University of Wisconsin; A.B.D., Indiana University

**Cheryl Wessel**, 2003, lecturer  
B.A., Luther College; M.A., The University of Toledo

**Elda M. White**, 1995, lecturer  
B.A., College of St. Benedict; M.A., The University of Toledo

## Department of Geography and Planning

**Frank J. Calzonetti**, 2000, professor and vice provost for research, graduate education and economic development  
B.A., M.A., Wayne State University; Ph.D., University of Oklahoma

**Kevin Czajkowski**, 1998, assistant professor  
B.S., State University of New York at Oneonta; Ph.D., University of Michigan

**Daniel J. Hammel**, 2005, associate professor  
B.A., Kansas State University, M.A., Ph.D., University of Minnesota

**David G. Howard**, 1995, lecturer  
B.A., The University of Toledo, M.A., Eastern Michigan University, Ph.D., The University of Toledo

**Patrick Lawrence**, 1999, assistant professor  
B.S., University of Guelph; M.A., Ph.D., University of Waterloo

**Peter S. Lindquist**, 1988, associate professor and chair  
B.S., University of Wisconsin - Eau Claire; M.S.L.A., University of Wisconsin - Madison; Ph.D., University of Wisconsin - Milwaukee

**David Weiguo Liu**, 2005, assistant professor  
BE, Heibei University, M.S., Beijing Forestry University, Ph.D., Boston University

**David J. Nemeth**, 1989, professor  
B.A., M.A., California State University - Northridge; Ph.D., University of California - Los Angeles

**Neil Reid**, 1991, associate professor  
B.A., M.A., University of Glasgow; M.A., Miami University; Ph.D., Arizona State University

**Sujata Shetty**, 2005, assistant professor  
B Arch. School of Planning and Architecture (New Delhi), MUP, Ph.D., University of Michigan

### EMERITUS FACULTY

**Basil Collins**, 1967, professor, 1991  
B.A., University of Ireland; M.A., Ph.D., University of Michigan; M.A., The University of Toledo

**Byron E. Emery**, 1963, professor, 1986  
B.A., M.A., University of Hawaii; Ph.D., University of Michigan

**Eugene N. Franckowiak**, 1968, professor, 1993  
B.A., Wayne State University; M.A., University of Kansas; Ph.D.,  
University of Michigan

**Frank E. Horton**, 1988, professor emeritus and president emeritus,  
1999  
B.S., Western Illinois University; M.S., Ph.D., Northwestern University

**Donald W. Lewis**, 1966, professor, 1986  
B.S., Bowling Green State University; M.A., Ph.D., The Ohio State  
University

### ASSOCIATED FACULTY

**Kenneth Dobson**, 1999, adjunct associate professor and director of com-  
munity and economic development  
M.A., University of Maryland

**M. Beth Schlemper**, 2005, adjunct professor  
B.A., M.A., University of Missouri-Columbia, Ph.D., University of  
Wisconsin-Madison

### RESEARCH PROFESSOR

**William A. Muraco**, 1971, professor emeritus and research professor,  
1999  
B.S., M.A., Ph.D., The Ohio State University

## Department of History

**Glenn J. Ames**, 1988, professor  
B.A., University of Rhode Island; M.A., Ph.D., University of Minne-  
sota

**Charles Beatty-Medina**, 2003, assistant professor  
B.A., Hunter College of The City University of New York; M.A., Ph.D.,  
Brown University

**Carol Bresnahan**, 1985, professor and vice provost for academic pro-  
grams and policies  
B.A., Smith College; M.A., Ph.D., Brown University

**Diane F. Britton**, 1986, professor  
B.A., M.A., University of Idaho; Ph.D., Washington State University

**Alfred A. Cave**, 1973, professor and interim chair  
B.A., Linfield College; M.A., Ph.D., University of Florida

**Charles N. Glaab**, 1968, professor  
B.Ph., M.A., University of North Dakota; Ph.D., University of Missouri

**Ruth W. Herndon**, 1996, associate professor  
B.A., University of Houston; M.A., Ph.D., American University

**William D. Hoover**, 1968, professor  
B.A., Muskingum College; M.A., Ph.D., University of Michigan

**Michael Jakobson**, 1991, professor  
B.A., M.A., Tel Aviv University; Ph.D., University of Minnesota

**Peter Linebaugh**, 1994, professor  
B.A., Swarthmore College; M.A., Columbia University; Ph.D., University  
of Warwick

**Ronald Lora**, 1967, professor  
B.S., Bluffton College; Ph.D., The Ohio State University

**William J. O'Neal**, 1969, professor  
B.A., St. Meinrad College; M.A., Indiana University; Ph.D., University  
of Missouri

**Roger D. Ray**, 1969, professor and director of the Humanities Institute  
B.A., Baylor University; Ph.D., Duke University

**Robert F. Smith**, 1969, Distinguished University Professor  
B.A., M.A., University of Arkansas; Ph.D., University of Wisconsin

**Larry D. Wilcox**, 1968, professor  
B.A., Ohio University; M.A., Ph.D., University of Virginia

### EMERITUS FACULTY

**Richard E. Boyer**, 1964, professor, 1993  
B.S.Ed., M.A., Northeast Missouri State College; Ph.D., University of  
Missouri

**Lorin Lee Cary**, 1968, professor, 1989  
B.A., Antioch College; M.A., Ph.D., University of Wisconsin

**William H. Longton**, 1968, professor and chair, 2003  
B.A., University of Florida; M.A., Ph.D., University of North Carolina

**Marvin L. Michael Kay**, 1971, professor, 1992  
B.A., Maryville College; Ph.D., University of Minnesota

**Lloyd B. Lapp**, 1946, professor, 1984  
B.A., M.A., The University of Toledo

**Theodore Natsoulas**, 1980, professor, 2005  
B.A., City College of New York; M.A., University of Chicago; Ph.D.,  
Syracuse University

**Bogdan C. Novak**, 1961, professor, 1990  
L.L.M., State University of Ljubljana; M.A., Loyola University; Ph.D.,  
University of Chicago

**Ivan C. Scott**, 1968, professor, 1984  
B.A., College of William and Mary; M.A., Ph.D., University of Penn-  
sylvania

**Arthur R. Steele**, 1957, professor, 1979  
B.A., University of California; M.A., University of New Mexico; Ph.D.,  
Duke University

## Honors Program

### ASSOCIATED FACULTY

**Walter Josef Denk**, 1990, adjunct assistant professor and assistant direc-  
tor, Honors Program  
B.A., Northwestern University

**Linda L. Smith**, 1992, lecturer  
B.A., The Ohio State University; J.D., M.A., Ph.D., The University of  
Toledo

## Humanities Institute

### ASSOCIATED FACULTY

**Christine A. Habrecht**, 1988, adjunct instructor and assistant dean  
B.A., Valparaiso University; M.A., The University of Toledo

**Sharon L. Schnarre**, 1990, adjunct assistant professor and premedical  
advising coordinator  
B.S., Bowling Green State University; M.S., Wright State University

## Department of Mathematics

**James D. Anderson**, 1990, assistant professor  
B.S., The University of Akron; M.S., Purdue University

**H. Lamar Bentley**, 1971, professor  
B.S., M.S., University of Arizona; Ph.D., Rensselaer Polytechnic Institute

**Dean A. Carlson**, 1989, professor  
B.S., Clarion State College; M.A., Ph.D., University of Delaware

**Zeljko Cuckovic**, 1994, associate professor  
B.S., M.S., University of Zagreb; Ph.D., Michigan State University

**Mohamed S. El-Bialy**, 1990, professor  
Ph.D., University of Minnesota

**Donald J. Greco**, 1977, professor  
B.A., The Ohio State University; M.Ed., Ph.D., The University of Toledo

**David Hemmer**, 2003, assistant professor  
B.A., Dartmouth College; M.S., Ph.D., University of Chicago

**Paul R. Hewitt**, 1990, associate professor  
B.S., Michigan Technological University; Ph.D., Michigan State University

**L. Marie Hoover**, 1984, associate professor  
B.A., Muskingum College; M.A., University of Michigan; Ph.D., The University of Toledo

**Marianty Ionel**, 2005, assistant professor  
B.S., University, "Al. I. Cuza"; M.A., Ph.D., Duke University

**En-Bing Lin**, 1986, professor  
B.S., National Taiwan University; Ph.D., Johns Hopkins University

**Geoffrey K. Martin**, 1989, associate professor and chair  
B.S., University of Connecticut; M.A., Ph.D., State University of New York - Stony Brook

**Elaine I. Miller**, 1986, associate professor  
A.S., Alpena College; B.S., M.A., Eastern Michigan University

**Rao V. Nagisetty**, 1974, professor  
B.A., Andhra University; Ph.D., Stekloff Institute

**Robert L. Ochs Jr.**, 1988, associate professor  
B.S., Ursinus College; M.S., The Pennsylvania State University; M.A., Ph.D., University of Delaware

**Charles J. Odenthal**, 1990, associate professor  
B.S., Harvey Mudd College; M.S., California Polytechnic University - Pomona; Ph.D., University of Wisconsin

**Biao Ou**, 1993, associate professor  
B.S., M.S., Zhejiang University; Ph.D., University of Minnesota

**Martin R. Pettet**, 1981, professor  
B.Sc., M.Sc., Toronto; M.Phil., Ph.D., Yale University

**Friedhelm Schwarz**, 1984, professor  
Diploma, University of Hanover; Ph.D., University of Bremen

**Qin Shao**, 2002, assistant professor  
B.S., M.S., Nankai University; Ph.D., The University of Georgia

**Ivie Stein Jr.**, 1971, associate professor  
B.S., M.A., California State College; Ph.D., University of California

**Stuart A. Steinberg**, 1971, professor  
B.A., Ph.D., University of Illinois; M.S., University of Chicago

**William N. Thomas Jr.**, 1975, associate professor  
B.A., University of Michigan; M.A., The University of Toledo

**Gerard Thompson**, 1988, associate professor  
B.Sc., King's College; M.S., Ph.D., University of North Carolina; Ph.D., Open University

**Mao-Pei Tsui**, 2005, assistant professor  
B.S., M.S., National Chao-Tung University; Ph.D., Brandeis University

**H. Westcott Vayo**, 1965, professor  
B.S., Culver - Stockton College; M.S., Ph.D., University of Illinois

**Henry C. Wente**, 1971, Distinguished University Professor  
A.B., A.M., Ph.D., Harvard University

**Denis White**, 1984, professor  
B.Sc., M.Sc., University of Toronto; M.S., Ph.D., Northwestern University

**Donald B. White**, 1993, professor  
B.S., University of California - Los Angeles; M.S., Ph.D., University of California - Irvine

**Harvey E. Wolff**, 1975, professor  
B.A., University of Connecticut; M.A., Ph.D., University of Illinois

**Biao Zhang**, 1993, professor  
B.Sc., M.S., East China Normal University; Ph.D., University of Chicago

### EMERITUS AND SUPERANNUATE FACULTY

**James L. Bailey**, 1963, professor, 1987  
B.S., Heidelberg College; M.S., Ph.D., Michigan State University

**Simmie S. Blakney**, 1964, professor, 1990  
B.S., Tougaloo College; M.S., Ph.D., University of Illinois

**Jayanthi Chidambaraswamy**, 1966, professor, 1990  
B.A., M.A., Andhra University; Ph.D., University of California - Berkeley



**Mary F. Coughlin**, 1969, professor, 1989  
B.A., Marygrove College; M.S., St. Louis University; Ph.D., University of Michigan

**Budmon R. Davis**, 1962, professor, 1989  
B.S., Geneva College; M.A., Ph.D., University of Pittsburgh

**Edward D. Ebert**, 1947, professor, 1984  
B.S., The University of Toledo; M.S., University of Iowa

**Arnold A. Johanson**, 1962, professor, 1987  
A.B., Kenyon College; M.A., The Ohio State University; Ph.D., Case Institute of Technology

**George J. Kertz**, 1966, professor, 1999  
A.B., Cardinal Glennon College; M.A., Ph.D., St. Louis University

**Walter Lange**, 1967, professor, 1989  
M.Ed., Ed.S., The University of Toledo

**Temoleon G. Rousos**, 1966, professor, 1986  
B.Ed., The University of Toledo; M.A.Ed., Eastern Michigan University; M.A., Mathematics, Bowling Green State University; Ed.S., Ed.D., The University of Toledo

**Paul Shields**, 1974, professor, 1999  
A.B., Colorado College; M.A., Ph.D., Yale University

**Stephen E. Spielberg**, 1963, professor, 1993  
B.A., University of Pennsylvania; M.A., Ph.D., University of Minnesota

**Gwen H. Terwilliger**, 1987, associate professor, 2005  
B.S., M.Ed., Bowling Green State University; Ph.D., The University of Toledo

## Department of Music

**Michael Boyd**, 1987, professor  
B.M., Wisconsin Conservatory of Music; M.M., D.M.A., Eastman School of Music

**Timothy D. Brakel**, 2000, assistant professor  
B.S., Jacksonville State University; M.S., Indiana State University; Ph.D., Indiana University

**Jon Hendricks**, 2000, Distinguished University Professor  
D.P.A. (Hon.), The University of Toledo

**Lee Heritage**, 1993, associate professor and interim chair  
B.M., Shenandoah University; M.M., University of Wisconsin; D.M.A., University of Illinois

**Stephen W. Hodge**, 1989, professor  
B.M.E., M.M.E., Wichita State University; D.M.A., University of Colorado

**David N. Jex**, 1983, professor  
B.M., The University of Toledo; M.M., Bowling Green State University; D.M.A., Cleveland Institute of Music

**Erik Johanson**, 1993, associate professor  
B.A., Augustana College; M.M., University of Cincinnati

**Raymond C. Marchionni**, 2001, professor  
M.M., University of Michigan; D.M.A., North Texas State University

**Barbara A. Rondelli Perry**, 1975, professor  
B.M., Kansas State College of Pittsburg; M.M., Pittsburg State University; L.R.A.M., Royal Academy of Music

### EMERITUS FACULTY

**Virginia A. Chambers**, 1975, professor, 1992  
B.M., University of Louisville; N.M., Eastman School of Music; Ph.D., University of Michigan

**Robert M. DeYarman**, 1978, professor, 1999  
B.A., M.A., Ph.D., State University of Iowa

**Thomas D. East**, 1971, professor, 1992  
B.A., University of Northern Colorado; M.M., Indiana University

**Mary R. Kihlslinger**, 1967, professor, 1998  
B.M.E., Alverno College; M.M., University of Wisconsin

**James L. Mason**, 1969, professor, 1992  
B.S., M.A., Wayne State University

**Frances A. Renzi**, 1973, professor, 1999  
B.M., North Texas State University; M.S., Juilliard School of Music

**Bernard R. Sanchez**, 1965, professor, 1993  
B.M.E., M.M., University of Louisville

**Richard M. Webster**, 1965, professor, 1993  
B.A., University of Washington; M.M., Eastman School of Music

**Arthur S. Winsor Jr.**, 1958, professor, 1992  
B.S., M.A., University of North Carolina; Ph.D., University of Michigan

### ASSOCIATED FACULTY

**Hana Kennell**, 1993, lecturer  
B.M.E., Northwestern University; M.M., University of Wisconsin

**David C. Mariasy**, 1982, lecturer  
B.A., The University of Toledo; M.M., Bowling Green State University

## Department of Philosophy

**Charles V. Blatz**, 1989, professor  
B.A., University of Cincinnati; M.A., Ph.D., University of Michigan

**James Campbell**, 1982, Distinguished University Professor  
B.A., Temple University; M.A., Ph.D., State University of New York - Stony Brook

**Richard R. Gaillardetz**, 2001, Murray/Bacik Endowed Professor of Catholic Studies  
B.A., The University of Texas - Austin; M.A., St. Mary's University; M.A., Ph.D., University of Notre Dame

**Madeline Muntersbjorn**, 1994, associate professor  
B.A., Carleton College; M.A., Ph.D., University of Pittsburgh

## 92 College of Arts and Sciences

**Benjamin Pryor**, 2000, assistant professor  
B.A., The University of Redlands; M.A., Claremont Graduate School;  
Ph.D., The Pennsylvania State University

**Susan M. Purviance**, 1988, professor  
B.A., M.A., Ph.D., University of California - Santa Barbara

**John Sarnecki**, 2002, assistant professor  
B.A., M.A., University of Calgary, Ph.D., Rutgers University

**Eric W. Snider**, 1986, associate professor and chair  
B.A., Grand Rapids Baptist College; M.A., Southern Illinois University;  
Ph.D., Vanderbilt University

### EMERITUS FACULTY

**George P. Guthrie**, 1961, professor, 1988  
A.B., D.B., Ph.D., University of Chicago

**Thomas C. Mayberry**, 1969, professor, 1989  
B.A., M.A., Oklahoma State University; Ph.D., University of Wash-  
ington

**Ramakrishna Puligandla**, 1966, professor, 1993  
B.S., M.Sc., Andhra University; M.S., Purdue University; A.M., University  
of South Dakota; Ph.D., Rice University

**Stephen S. Tigner**, 1965, professor, 1990  
B.A., University of Rochester; M.A., Ph.D., University of Michigan

### ASSOCIATED FACULTY

**James J. Bacik**, 1983, adjunct professor of humanities  
B.A., M.A., Atheneum of Ohio; M.F., Fordham University; D.Phil.,  
University of Oxford

## Department of Physics and Astronomy

**Jacques G. Amar**, 1997, associate professor  
M.A., University of Rochester; Ph.D., Temple University

**Lawrence S. Anderson-Huang** 1978, professor  
B.S., California Institute of Technology; M.A., Ph.D., University of  
California - Berkeley

**Brian G. Bagley**, 1991, professor  
B.S., M.S., University of Wisconsin - Madison; A.M., Ph.D., Harvard  
University

**Jon E. Bjorkman**, 1996, associate professor  
M.S., University of Colorado; Ph.D., University of Wisconsin

**Karen S. Bjorkman**, 1996, professor  
M.S., Ph.D., University of Colorado

**Bernard W. Bopp**, 1974, professor and director of the Center for Teach-  
ing and Learning  
B.A., New York University; Ph.D., The University of Texas

**Song Cheng**, 1993, associate professor  
B.Sc., Changsha Institute of Technology; Ph.D., Kansas State Univer-  
sity

**Robert W. Collins**, 2004, professor and NEG Endowed Chair of Silicate  
and Materials Science  
B.A., Clark University; M.S., Ph.D., Harvard University

**Alvin D. Compaan**, 1987, professor, chair and director of the Center for  
Materials Science and Engineering  
A.B., Calvin College; M.S., Ph.D., University of Chicago

**Larry J. Curtis**, 1963, Distinguished University Professor  
B.S., The University of Toledo; M.S., Ph.D., University of Michigan

**Xunming Deng**, 1996, professor  
M.S., Ph.D., University of Chicago

**David G. Ellis**, 1965, professor  
A.B., Marietta College; Ph.D., Cornell University

**Steven R. Federman**, 1988, professor  
B.S., Polytechnic Institute of Brooklyn; M.S., Ph.D., New York University

**Bo Gao**, 1994, associate professor  
B.S., Zhejiang University; M.S., Ph.D., University of Nebraska

**Philip B. James**, 1990, Distinguished University Professor  
B.S., Carnegie Mellon University; Ph.D., University of Wisconsin

**Victor G. Karpov**, 2001, professor  
Ph.D., Leningrad Polytechnic Institute

**Thomas J. Kvale**, 1986, professor  
B.A., Gustavus Adolphus College; M.S., Ph.D., University of Missouri  
- Rolla

**Scott A. Lee**, 1987, professor  
B.S., Bowling Green State University; M.S., Ph.D., University of Cin-  
cinnati

**R. Ale Lukaszew**, 2000, assistant professor  
Ph.D., Wayne State University

**Sylvain X. Marsillac**, 2005, assistant professor  
Ph.D., University of Nantes, France

**S. Thomas Megeath**, 2005, assistant professor  
Ph.D., Cornell University

**Nancy D. Morrison**, 1978, associate professor  
B.A., Radcliffe College; M.S., Ph.D., University of Hawaii

**James F. Palmer**, 1999, professor  
M.S., Cornell University; M.S., Eastern Michigan University; M.S.,  
University of Florida

**Constantine E. Theodosiou**, 1981, professor and associate dean for the  
natural sciences and mathematics  
Diploma, University of Athens; M.S., Ph.D., University of Chicago

**Adolf N. Witt**, 1967, Distinguished University Professor  
Vordiplom, University of Hamburg; Ph.D., University of Chicago

### EMERITUS FACULTY

**Randy G. Bohn**, 1969, professor, 2003  
B.S.E.P., The University of Toledo; Ph.D., The Ohio State University

**Helen L. Brooks**, 1955, professor, 1972  
M.A., The University of Toledo

**Robert T. Deck**, 1965, professor, 1993  
B.A., LaSalle College; Ph.D., University of Notre Dame

**Armand H. Delsemme**, 1966, professor, 1988  
M.S., M.E., Ph.D., Universite de Liege

**Richard M. Schectman**, 1961, professor, 1986  
B.S., Lehigh University; M.S., The Pennsylvania State University; Ph.D., Cornell University

**H. John Simon**, 1972, professor, 1999  
B.S., Tufts University; M.A., Ph.D., Harvard University

**William Williamson Jr.**, 1965, professor, 1997  
B.A., San Francisco State College; M.A., University of California; Ph.D., University of Colorado

### ASSOCIATED FACULTY

**Michael J. Dennis**, 2002, honorary associate professor of physics  
Ph.D., University of Texas

**Ralph R. Dobelbower**, 2000, honorary professor of physics  
M.D., Jefferson Medical College of Philadelphia; Ph.D., Thomas Jefferson University

**John J. Feldmeier**, 2000, honorary professor of physics  
D.O., Philadelphia College of Osteopathic Medicine

**Michael Mumma**, 2002, honorary professor of physics & astronomy  
Ph.D., University of Pittsburgh

**Stanford Ovshinsky**, 1999, honorary professor of physics

**E. Ishmael Parsai**, 2000, honorary associate professor of physics  
Ph.D., Medical University of Ohio

**A. Alan Pinkerton**, 1996, honorary professor  
Grad., RIC Brighton College of Tech; Ph.D., University of Alberta

## Department of Political Science and Public Administration

**Lynn W. Bachelor**, 1988, associate professor  
B.A., Mount Holyoke College; M.A., University of New Hampshire;  
Ph.D., University of Chicago

**David H. Davis**, 1989, professor  
B.A., Cornell University; M.A., Ph.D., Johns Hopkins University

**Mark E. Denham**, 1989, associate professor and chair  
B.S., Georgia Institute of Technology; M.Div., Boston University; M.A.,  
Ph.D., The Ohio State University

**Renee J. Heberle**, 1997, associate professor  
B.A., Brandeis University; M.A., Ph.D., University of Massachusetts  
- Amherst

**Hugh F. Hinton**, 1975, associate professor  
B.A., M.A., Ph.D., The University of Texas

**James W. Lindeen**, 1967, professor  
B.A., University of Omaha; M.A., Ph.D., University of Nebraska

**Samuel P. Nelson**, 2001, assistant professor  
B.A., Northwestern University; M.A., Ph.D., University of Wisconsin  
- Madison

**Ronald R. Randall**, 1970, professor  
B.A., University of Montana; Ph.D., University of Wisconsin

**Sunday E. Ubokodom**, 1995, associate professor  
B.S., Oklahoma State University; M.P.A., Ph.D., University of Kansas

**Richard F. Weisfelder**, 1975, professor  
B.A., Amherst College; M.A., Ph.D., Harvard University

**Carter A. Wilson**, 1983, professor  
B.A., M.A., Ph.D., Wayne State University

**David S. Wilson**, 1970, associate professor  
B.A., Dartmouth College; M.A., Ph.D., Cornell University

### EMERITUS AND SUPERANNUATE FACULTY

**Abid A. Al-Marayati**, 1968, professor, 1989  
B.S., M.A., Bradley University; Ph.D., New York University

**Norman Blume**, 1956, professor, 1983  
B.A., University of Connecticut; M.A., Boston University; Ph.D., The  
Ohio State University

**Winfield S. Bollinger**, 1967, professor, 1993  
B.A., Ph.D., Syracuse University

**George P. Jan**, 1968, professor, 1993  
B.A., National Chengchi University; M.A., Southern Illinois University;  
Ph.D., New York University

**Willard W. Smith**, 1961, professor, 1989  
B.A., Miami University; M.S.G.M., University of Denver

**Robert S. Sullivant**, 1973, professor, 1990  
A.B., M.A., University of California; Ph.D., University of Chicago

**Karl O. Vezner**, 1971, professor, 1992  
B.A., Valparaiso University; M.A., American University; Ph.D., University  
of North Carolina

**George L. Willis**, 1969, professor, 1983  
B.A., Ph.D., Indiana University; M.A., University of North Carolina

## Department of Psychology

**Harvard L. Armus**, 1960, professor  
A.B., New York University; A.M., Columbia University; Ph.D., State  
University of Iowa

**Wesley A. Bullock**, 1988, associate professor  
B.A., M.S., Ph.D., University of Oklahoma

## 94 College of Arts and Sciences

**Michael Caruso**, 1988, associate professor  
B.A., M.A., The University of Akron

**Stephen D. Christman**, 1989, professor  
B.A., University of Michigan; Ph.D., University of California - Berkeley

**Alexander M. Czopp**, 2004, assistant professor  
B.A., St. Mary's College of Maryland; M.S., Ph.D., University of Kentucky

**Robert K. Elliott**, 1978, professor  
B.A., University of California - Santa Cruz; M.A., Ph.D., University of California - Los Angeles

**Jeanne B. Funk**, 1995, professor  
B.A., Bucknell University; Ph.D., University of North Carolina

**Andrew L. Geers**, 2001, assistant professor  
B.A., University of Cincinnati; M.S., Ph.D., Ohio University

**Henry E. Heffner**, 1987, professor  
B.A., Trinity College; M.S., Ph.D., Florida State University

**Ricky S. Heffner**, 1987, professor  
B.A., Vanderbilt University; M.S., Ph.D., Florida State University

**Joseph D. Hovey**, 1997, associate professor and chair  
B.A., University of California - Los Angeles; M.A. Ph.D., University of Michigan

**John D. Jasper**, 2001, assistant professor  
B.S., Kansas State University; M.A., Ph.D., University of Iowa

**Kamala London**, 2005, assistant professor  
B.A., Grand Valley State University; M.S., Ph.D., University of Wyoming

**Gregory J. Meyer**, 2003, assistant professor  
B.S., University of Illinois at Urbana - Champaign; M.S., Ph.D., Loyola University in Chicago

**Joni L. Mihura**, 1996, associate professor  
B.S., M.S., Ph.D., Oklahoma State University

**Lisa A. Neff**, 2004, assistant professor  
B.A., University of Dayton; M.A., Wake Forest University; Ph.D., University of Florida

**Laura D. Seligman**, 2001, assistant professor  
B.A., State University of New York at Oneonta; M.S., Ph.D., Virginia Polytechnic Institute and State University

**Alice H. Skeens**, 1963, associate professor  
B.S., Concord College; M.A., West Virginia University; Ed.D., The University of Toledo

**Peg Hull Smith**, 1983, associate professor  
B.A., M.A., Ph.D., The University of Toledo

**Mojisola F. Tiamiyu**, 1997, associate professor  
B.Sc., Obafemi Awolowo University; M.Sc., University of Jos; Ph.D., University of Toronto

### EMERITUS FACULTY

**Robert J. Burns**, 1946, professor, 1982  
B.B.A., M.A., The University of Toledo; Ph.D., University of Michigan

**David M. Del Castillo**, 1968, professor, 1993  
B.S., M.S., Ph.D., University of New Mexico

**William E. Gumenik**, 1963, professor, 1988  
B.A., M.A., Brooklyn College; Ph.D., New York University

**Robert A. Haaf**, 1969, professor, 2004  
B.A., Gettysburg College; M.A., University of Maryland; Ph.D., University of Connecticut

**Walter McKeever**, 1990, professor, 2003  
B.A., Miami University; Ph.D., University of Rochester

**Albert B. Palmer Jr.**, 1965, professor, 1993  
B.A., Heidelberg College; M.S., New Mexico Highlands University; Ph.D., Southern Illinois University

**Stefan Slak**, 1967, professor, 1993  
Diplome, Universite de Paris; M.S., Lehigh University; Ph.D., Wayne State University

**Julian Wohl**, 1961, professor, 1986  
A.B., Brooklyn College; Ph.D., University of Nebraska

### ASSOCIATED FACULTY

**Denis P. Lynch**, 1968, associate professor  
A.B., University of Detroit; M.S., Ph.D., Case Western University

**Rebecca R. Kotlowski**, 2004  
B.A., University of Iowa; M.A., Psy.D., University of Indianapolis

**Denis P. Lynch**, 1968, associate professor  
A.B., University of Detroit; M.S., Ph.D., Case Western University

**Sallyann Treadaway**, 1998  
B.A., Northeastern University; M.A., Ph.D., University of Toledo

## Department of Sociology and Anthropology

**Abdul Alkalimat**, 1994, professor and director of Africana Studies  
B.A., Ottawa University; M.A., Ph.D., University of Chicago

**Patricia F. Case**, 2004, assistant professor  
B.A., M.A., Ph.D., Wayne State University

**Barbara K. Chesney**, 1989, associate professor and chair  
B.A., Mount St. Mary's College; M.A., Eastern Michigan University; M.P.H., Ph.D., University of Michigan

**Barbara Coventry**, 1991, associate professor  
B.A., Eureka College; M.S., Illinois State University; Ph.D., University of Illinois

**Mary Louise Glen**, 1967, professor  
B.A., Wayne State University; M.Ed., Ed.S., Ed.D., The University of Toledo

**Daniel M. Johnson**, 2001, professor and president of The University of Toledo  
B.A., M.A., Texas Christian University; Ph.D., University of Missouri - Columbia

**William Leons**, 1975, associate professor  
B.A., M.A., University of California; Ph.D., The Pennsylvania State University

**Patrick McGuire**, 1987, associate professor  
B.A., State University of New York - Potsdam; M.A., M.A.T., State University of New York - Binghamton; Ph.D., State University of New York - Stony Brook

**Seamus P. Metress**, 1969, professor  
B.S., University of Notre Dame; M.A., Columbia University; Ph.D., Indiana University

**Marietta Morrissey**, 1989, professor and associate dean for the social sciences  
B.A., University of Pittsburgh; M.A., Ph.D., Michigan State University

**Elias T. Nigem**, 1976, associate professor and graduate director  
A.A., Los Angeles Valley College; B.A., M.A., California State University; Ph.D., Utah State University

**Mark Sherry**, 2005, assistant professor and Ability Center of Greater Toledo Endowed Chair in Disability Studies  
B.A., M.A., Ph.D., The University of Queensland

**Rubin Patterson**, 1992, associate professor  
B.S., Florida State University; M.S., George Washington University; Ph.D., Howard University

**Angela Siner**, 1989, instructor and adviser for sociology and anthropology  
B.A., Grambling State University; M.A., University of Southwest Louisiana

**David M. Stothers**, 1972, professor  
B.A., McMaster University; M.A., University of Toronto; Ph.D., Case Western Reserve University

**Jerry Van Hoy**, 2000, associate professor  
B.A., University of California - Santa Cruz; M.A., Ph.D., Northwestern University

**Leslie Wang**, 1991, instructor  
B.A., M.A., State University of New York at New Paltz; Ph.D., University of Toledo

### EMERITUS FACULTY

**Nadim Bitar**, 1969, professor, 1990  
B.A., M.A., Wayne State University; Ph.D., Sorbonne University of Paris

**Robert E. Forman**, 1969, professor, 1986  
B.A., M.A., Ph.D., University of Minnesota

**Sidney J. Kaplan**, 1962, professor, 1989  
B.A., M.A., Boston University; Ph.D., Washington State University

**James A. King**, 1971, professor, 1999  
B.A., St. Procopius College; M.A., Ph.D., University of Notre Dame

**Neil M. Palmer**, 1967, professor, 1991  
B.S., B.A., M.A., The University of Texas; Ph.D., University of Iowa

**Ruth E. Searles**, 1969, professor, 1991  
B.A., Oberlin College; M.A., Ph.D., University of Michigan

### RESEARCH PROFESSOR

**Cary S. Kart**, 1974, professor, 2000  
B.A., Queens College; M.A., Adelphi University; Ph.D., University of Virginia

## Department of Theatre and Film

**James S. Hill**, 1980, professor  
B.A., M.A., Adams State College; M.F.A., University of Arizona

**Tammy A. Kinsey**, 2000, assistant professor  
B.A., Virginia Tech; M.F.A., Virginia Commonwealth University

**Sue Ott Rowlands**, 2002, professor and interim dean  
B.S., Oklahoma Christian College; M.F.A., University of Oklahoma

**Holly Monsos**, 1992, associate professor and interim chair  
B.A., Michigan State University; M.F.A., University of Montana

### EMERITUS FACULTY

**Bernard A. Coyne**, 1964, professor, 1985  
B.A., Villanova University; M.F.A., Catholic University of America; Ph.D., Tulane University

**William R. Smith**, 1972, professor, 1992  
B.S.E., Indiana University; M.F.A., University of Wisconsin

**E. Elaine Valois**, 1966, professor, 1991  
B.A., Bowling Green State University; Certificate, Sorbonne University of Paris; M.A., Bowling Green State University

**Charles H. Vicinus**, 1978, professor, 1993  
B.A., Antioch College; M.F.A., Yale University

**Daniel J. Watermeier**, 1984, professor  
B.A., University of Tennessee; M.A., University of Maryland; Ph.D., University of Illinois

**Charles E. Williams**, 1984, associate professor, 2002  
B.A., Texas Christian University; M.A., Stanford University

## Department of Women's and Gender Studies

**Jamie Barlowe**, 1990, professor and interim chair  
B.A., Indiana University; M.A., Ph.D., The Ohio State University

**Patricia A. Groves**, 1979, associate professor  
B.A., Bowling Green State University; M.S.W., University of Michigan; Ph.D., The Ohio State University

## 96 College of Arts and Sciences

**Asma M. Abdel Halim**, 2004, assistant professor  
LL.B., University of Khartoum; MAIA, Ph.D., Ohio University

**Ashley Pryor**, 2000, assistant professor  
B.A., University of Delaware; M.A., DePaul University; Ph.D., The  
Pennsylvania State University