College of Arts and Sciences

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Mission Statement

The College of Arts and Sciences offers a liberal arts education as well as professional specializations at the undergraduate and graduate levels through excellence in teaching, research, creative activities, and service; stimulates discovery, informed critical thought, and creative activity in the arts, humanities, mathematics and natural sciences, social sciences, and interdisciplinary efforts; and fosters cultural pluralism, respects diverse opinions and worldviews, and promotes values, skills, and knowledge important in regional and global communities.

Admission Policies

Beginning fall 2008, new first-year students must have either a 2.0 high school GPA or ACT composite of 19 to be admitted to the College of Arts and Sciences. Beginning summer 2009, new first-year students must have either a 2.25 high school GPA or ACT composite of 20 to be admitted to the College of Arts ad Sciences.

To be considered for admission to the premedical, pre-dental and pre-veterinary 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.

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. External transfer course work previously evaluated by other UT colleges will be re-evaluated. 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. Credit restrictions and level requirements for Arts and Sciences students will apply.

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. Courses transferred from community, junior or technical colleges offering Associate degrees will not count toward the requirement of 32 credits at the 3000-4000 levels. 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 the major and 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 and 9 semester hours In their minor field, regardless of the number of hours transferred.

Students transferring to the University of Toledo in Spring 2007 or later, including transfer readmits, must meet minimum GPA requirements in their Arts and Sciences majors and minors with both (1) the grades of all courses attempted at UT and (2) in a second calculation, the grades of all courses attempted at all institutions (including UT). The grades of all courses (from all institutions) which are used by those students to satisfy UT Core requirements must be used in the calculation of the UT Core GPA.

UT students who attend other institutions as guests or transient students in Fall 2008 or later must also meet minimum GPA requirements in their Arts and Sciences majors and minors with (1) the grades of all courses attempted at UT and (2) in a second calculation, the grades of all courses attempted at all institutions (including UT). The grades of all courses (from all institutions) which are used by those students to satisfy UT Core requirements must be used in the calculation of the UT Core GPA.

For the purposes of meeting minimum cumulative GPA's in a student's A & S major(s) and/or minor(s) and the UT Core, the grades of all courses attempted at all institutions will be included in the GPA calculation(s). Note: Due to technological limitations of UT's current Degree Audit Reporting System, Degree Audit GPA calculations for students who have taken courses at other institutions may not be accurate. Consult a college staff Adviser if you have questions.

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

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

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.

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 in baccalaureate degree - granting colleges. 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' absence must comply with existing college requirements at the time of readmission.

Academic Policies

Refer to UT Policy website for academic policies that apply to all students.

Academic Advising

Academic advising is a process intended to help students derive as many benefits as possible from their educations. This occurs when Advisers help students develop and reach academic 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, transfer students, students changing colleges, 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 or program Advisers, faculty who provide general information 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 general, 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. A complete list of academic Advisers is available on the college website or in the College office.

Student Responsibilities

Students are responsible for correctly selecting courses for their programs of study each semester and for fulfilling all degree requirements. Although Advisers will assist wherever possible, the final responsibility rests with the student. Students 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 Fundamentals of 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 general requirements, 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.

Transient (Guest) Enrollment at Another Institution

Arts and Sciences students must have advance permission both to enroll elsewhere as a guest and to take specific courses. The Transient Student form for this purpose is available in the College Student Services Office and on the college website. Students enrolling without permission will be considered transfer readmits upon their return to UT. A & S students enrolled as transients or guests at another institution must submit an official transcript to the UT Office of Admission at the conclusion of the enrolled term. Grades of all courses attempted in the major, minor, and UT Core will be used in cumulative GPA calculations.

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. Students may not use repeat courses taken at other institutions to qualify for a GPA recalculation.

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.

Note: Assignment of the IW and DR grades has been discontinued. A student wanting to be withdrawn from a course must file a petition in the Records Office by the deadline in the term of enrollment.

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.

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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.

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 of credit for PSY 1010.

Introductory Sociology: For a score of 50, a student will receive three hours credit for SOC 1010.

Precalculus: For a score of 65, a student will receive four hours of credit for MATH 1340.

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 of credit for SPAN 1500 and SPAN 2140.

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. This process is initiated by the student. 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

A cumulative grade point average (GPA) reflects all grades earned, including grades of F and grades in repeated courses. Candidates must earn a minimum overall cumulative GPA of C (that is, a 2.0 GPA on a 4.0 scale) for all UT course work. In addition, candidates must earn a minimum cumulative GPA of C in the major, minor (optional) and UT core, with the grades of all courses attempted at all institutions included in the GPA calculation. Some programs require a higher GPA in the major. *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 and Levels

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. (Courses transferred from community, junior or technical colleges offering Associate degrees will not count toward the 3000-4000 level requirement.)

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 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 ARS 1000. 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, communication, English, film, foreign languages (courses higher than 2150 or culture courses 1080 and 1090, or a second foreign language), history, humanities, music, philosophy, religious studies 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 a minimum of 9 hours and must include one laboratory course).

   Students not majoring in a natural science will take a minimum of 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 to meet the core requirements.

   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, 1050, 1130, 1140, 1150, 1160 and 1170; 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, 2020, 2800, and 2900; ECON 1010, 1150 and 1200 ; GEPL 1010 and 1100; PSC 1200, 1300, 1400 and 1710; PSY 1010; and SOC 1010 and SOC 1750.

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. See section on "Earning a Second Degree" for statement on requirements when two or more desired major programs are offered as different degrees.

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.**

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.

Honors

Honors work in the College of Arts and Sciences is available to academically talented students. The college Honors Program is offered as part of the University Honors Program; departmental honors are offered by individual departments within the college.

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 by the university-wide 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 as part of the University Honors Program. The reverse is not possible, however, as the requirements for departmental honors are an integral part of the college Honors Program. Students with two majors may earn departmental honors in one or both areas of study. They also may pursue an interdisciplinary honors Thesis; permission of department or program honors Advisers is required.

Undergraduate Programs of Study

Degrees Offered

Departmental Majors

Anthropology (B.A.)
Art (B.A. or 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 concentrations in ecology and organismal biology and in medical technology)
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/Video (B.A.)
French (B.A.)
Geography and planning (B.A. with optional concentrations in geographic information science and planning)
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., B.M. with concentrations in voice, piano, organ, guitar, string, wind and percussion, instrumental jazz, vocal jazz and instrumental and vocal jazz with emphasis in music business and recording arts)
Philosophy (B.A.)
Physics (B.S. with concentrations in astrophysics, biomedical physics and applied physics; B.A.)
Political science (B.A. with optional specializations in public administration and legal studies)
Psychology (B.A.)
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* (multiple minors available)
Chemistry
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
Renewable Energy
Social informatics
Sociology
Spanish
Theatre (theatre, history and criticism of drama)
Women's and gender studies

*Particular business minors may require specific course work in economics and/or mathematics from the College of Arts and Sciences as well as courses from the College of Business Administration. A student interested in pursuing a minor in business administration should consult with an Adviser in the College of

Business Administration Student Services Office.

**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.

Programs of Study

Africana Studies

Rubin Patterson, Interim 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
or
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)

Seamus P. Metress, director of anthropology

William Leons, 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, 3520, 3850, 4000 and 4200;
b. 12 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 ARTH 2200 Ethnographic Art or ARTH 3270 Topics in Ethnographic Art; LING 3150 Linguistic Principles; and 12 hours of (major level) electives outside Anthropology. 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 3520 Quantitative Approaches in Social Science Research
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; these hours apply toward the 33 required in the major. 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

Debra Davis, 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	3
	and	
	ARTH 2001	3
	Total	6
5	ARTH 1500	3
	and	
	ARTH 2001	3
	and	
	ARTH 2003	3
	Total	9

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
3, 4 or 5	ART 1080	3

Studio Art – 2-D Design

3, 4 or 5	ART 2050	3

Studio Art – 3-D Design

3, 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

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2009-2010 Catalog

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:

a. A survey history of Western art composed of a sequence of two three-credit hour courses: ARTH 2001 History of Western Art I, and ARTH 2003 History of Western Art II. The courses may be taken in any order.
b. At least one course in non-Western art (drawn from ARTH 2100 Asian Art, ARTH 2200 Ethnographic Art, ARTH 3250 Topics in Asian Art, ARTH 3270 Topics in Ethnographic Art, ARTH 3300 African Art, or ARTH 3350 Ancient Art of the Americas).
c. The remaining hours for the major may be selected from any courses offered by the art history program, but must include ARTH 2080 Modern Art, ARTH 2300 Introduction to Architecture, and ARTH 3400 Contemporary Art (WAC). Majors with a GPA in the major of at least 3.00 may apply to pursue up to six hours in Independent Study (ARTH 4990), which 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:

a. At least one course in non-Western art, such as ARTH 2100 Introduction to Asian Art, ARTH 2200 Ethnographic Art or any special course devoted to non-Western art; and
b. A 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 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

Barbara Miner, director of the studio fine art program

Linda Ames-Bell, Diana Attie, Chris Burnett, Debra Davis, Rex Fogt, Thomas Lingeman, Deborah Orloff, 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: ceram- ics, drawing, metals, painting, printmaking 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 1) ARTH 2001; 2) ARTH 2003; 3) ARTH 2080, 3400, or 4500; 4) an elective art history course at the 3000 level or greater; and 5) 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, 3400, or 4500	Modern and Contemporary 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:

a) 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.
b) Major: 23 hours chosen from one of the following studio concentrations: ceramics, drawing, metalsmithing, painting, print making and sculpture. As a major, drawing requires 23 hours, in addition to the basic requirements of 10 hours listed above.
c) 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.
d) 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 (5 courses) in art history. Art history courses must include 1) ARTH 2001; 2) ARTH 2003; 3) ARTH 2080, 3400, or 4500; 4) an elective art history course at the 3000 level or greater; and 5) 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:

a. 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

b. 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)

c. 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.

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 the following:

ARTH 2080, 3400, or 4500	Modern and Contemporary 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 P/S/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 four 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 circumstances, certain courses in other colleges may be used to satisfy the related requirement.

Astronomy

(Administered by the Department of Physics and Astronomy)

Karen Bjorkman, Chair

Scott Lee, undergraduate Adviser

Degrees Offered

The department of physics and astronomy offers a program of study leading to the Bachelor of Arts in

astronomy. There is also an astrophysics concentration for the Bachelor of Science in physics (see Physics section later in this catalog).

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.

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Department of Biological Sciences

Douglas Leaman, Chair

Brian Ashburner, undergraduate Adviser and Adviser for the Salford University Exchange

Bruce Bamber, undergraduate Adviser

Sally Harmych, undergraduate Adviser

Lirim Shemshedini, graduate Adviser

John Plenefisch, departmental honors Adviser and Medical Technology Adviser

Anthony Quinn, undergraduate Adviser

William Taylor, undergraduate Adviser

Degrees Offered

The department of biological sciences offers a degree program for a bachelor of science. The department of 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 plus an additional 6 credits of Undergraduate Research/Honors Thesis (BIOL 4910) must be completed with a minimum GPA of 3.2 overall and in BIOL courses. The program of study must include honors sections of at least two biology courses (minimum of 6 credits) in addition to BIOL 4910. The Undergraduate Research/Honors Thesis credits are completed under the direction of a faculty research director selected by the student. Students must submit a written Honors Thesis to the department before completion of their senior year and make a formal public or alpresentation of their research (typically at the spring Biology Undergraduate Research Symposium).
The requirement of Honors Thesis research may be fulfilled in one of three ways:

1. Laboratory research in a Biosciences faculty member's laboratory;

2. Laboratory research in a summer or academic year program, in which the student carries out full-time independent research for at least 10 weeks under the direction of a senior scientist on a topic approved by the departmental honors Adviser and/or the department Chair;

3. Laboratory research in the laboratory of a senior scientist who is not a member of the department of biological sciences on a topic approved by the departmental honors Adviser and/or the department Chair.

For options 2 and 3, it is very important that the student get his/her proposed thesis research project approved in advance by the departmental honors Adviser and/or the department Chair, who will monitor progress and direct the 4910 courses.

Junior Year Studies in England for Biology Majors

The department of biological sciences participates in a well-established exchange program with the University of Salford, England. Selected UT biology (and pre-medical, pre-dental and pre-veterinary) 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. Brian Ashburner. Details are available on academic issues, living accommodations, recreational opportunities and life in England on the departmental Web site at *www.utoledo.edu/as/bio/undergrad/abroad.html*

Medical Technology Program/Clinical Laboratory Sciences

This program is designed as a concentration in the biology major. It 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. John Plenefisch, before selecting this professional career option.

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

Department of Chemistry

A. Alan Pinkerton, Chair

Jon R. Kirchhoff, Associate Chair

Cora Lind, director of graduate studies

Eric W. Findsen, undergraduate advising coordinator

Xiche Hu, undergraduate Adviser

Ronald E. Viola, undergraduate Adviser

James Zubricky, 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 1100; 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, 4530, 4570 or 4580. 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, 3560, 4500, 4510, 4520, 4530, 4570, 4580, 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.

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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, 4570, 4580, 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:** In addition to the credits required to complete the major, 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 the required 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, honors communication Adviser

Dee Drummond, journalism Adviser

Paul Fritz, organizational/interpersonal communication Adviser

Paulette Kilmer, journalism Adviser

Richard J. Knecht, organizational/interpersonal communication Adviser

Jacqueline Layng, Associate Chair and Adviser for communication minor

Paul A. Many, journalism Adviser

Brian Patrick, honors communication Adviser

Donald Reiber, broadcasting Adviser

Fatima A. Shousher Simon, public relations Adviser

Sumitra Srinivasan, journalism Adviser

David Strukel, broadcasting Adviser

David E. Tucker, broadcasting Adviser

Raymond Jackson, Adviser

Degrees Offered

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

Requirements for the General Communication Major

1. All 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 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, 4340 and 4630. Independent Study hours (COMM 2990) may not count toward the minimum requirement of eight hours.
3. All communication majors must take a minimum of eight hours and a maximum of 12 hours from the following conceptual communication classes: COMM 3180, 3720, 3290, 3820, 3840, 3850, 3890, 4090, 4100, 4220, 4250, 4330, 4640, 4810, 4820, 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 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.
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, 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, 3870, 3890, 4090, 4100, 4210, 4220, 4250, 4330, 4640, 4810, 4820, 4830, 4900 and 4990. Independent Study hours (COMM 4990) may not count toward the minimum requirement of six hours.

Honors in Communication

Communication majors may graduate with departmental honors by meeting the following qualifications.

Admission:

- Junior or Senior status
- 3.25 minimum GPA in Communication
- 3.0 minimum cumulative GPA
- Completion of three Department of Communication core courses: COMM 2000, COMM 2400, COMM 2600
- An interview with an Honors Adviser
- A letter of application that explains the student's plan of work for the student's proposed Honors Thesis or Project (i.e., a brief prospectus)
- Consent of Department of Communication Honors Adviser

Requirements:

- All general requirements for undergraduate Communication major
- Completion of Honors Thesis or Project as approved by Adviser (the Thesis or Project is intended to be creative, independent work, meeting high scholarly or professional standards, undertaken by the student under the supervision of faculty)
- Defense or public presentation of Thesis or Project
- 12 hours in courses designated as Communication Honors

Any 3000 or 4000 level Communication course may be designated as "Honors" with the Instructor's permission and his/her assignment of suitable reading and research/project in addition to normal course work.

Minor in Disability Studies

(This program is interdisciplinary. See the Law and Social Thought Program for the concentration in Disability Studies.)

James Ferris, 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 Economics

Michael Dowd, Chair

Olugbenga Ajilore, undergraduate Adviser and Honors Adviser

Degrees Offered

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

Advanced Placement

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 (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

Timothy Geiger, Associate Chair and director of academic programs

Catherine H. Chengges, administrative coordinator

C. Jane Bradley, director of creative writing

Barbara Schneider, director of composition

Christina Fitzgerald, director of graduate studies

Melissa Gregory, director of departmental honors

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 on the English Language and Composition examination will receive credit for Composition I; those with a score of 4 or 5 will receive credit for Composition I and II. Students with a score of 3 or more on the English Literature and Composition examination will receive credit for Composition I; those with a score of 4 or 5 will receive credit for Comp I and ENGL 2710.

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 36 credit hours.

1. **The General Literature Concentration must include the following:** ENGL 3150, 3600 or 3610, 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.
2. **The American Literature Concentration must include the following:** ENGL 3150, 3600,3790 and 4860 (American single author); one course in British literature before 1800; one course in British literature after 1800; a minimum of 15 elective hours in 4000-level American literature courses; and one elective course in English (3 hours).
3. **The General Writing Concentration must include the following:** ENGL 3150, 3600 or 3610, 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 the following:** ENGL 3010, 3150, 3600 or 3610, 3790, 3810; three writing workshops (ENGL 4030, 4070 or 4080); 6 credit hours of creative writing electives and one 4000-level literature course. Final requirements include the capstone course.

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 21 hours is required for the minor in English with a concentration in literature or writing.

Requirements for the minor in English (literature concentration): ENGL 3600 or 3610, 3790; ENGL 3810; 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 six hours will be selected from departmental literature offerings at the 3000 and 4000 levels in consultation with the department of English Adviser.

Requirements for the minor in English (writing concentration): ENGL 3600 or 3610; ENGL 3790; 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).

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.

Department of Environmental Sciences

Michael W. Phillips, Chair and undergraduate Adviser, geology and environmental science

Timothy Fisher, Associate Chair

Elliot J. Tramer, undergraduate Adviser, environmental sciences, ecology and organismal biology

Alison Spongberg, undergraduate Adviser, environmental studies

Stacey Philpott, undergraduate Honors research Adviser

Degrees Offered

The department of 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, 2500, 3050, 3100 and 3900, as well as MATH 2600, PSC 4340, ECON 3240, 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. Qualified environmental sciences majors may elect a concentration in environment health and continue for a 5th year to earn an M.S. in Public Health from the University's College of Medicine. 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.

Public Health Track

This track requires the student to maintain an overall GPA of 3.0 or higher during the first 2 years of university study. The student normally will apply at the end of the sophomore year (year 2). In addition to the courses

listed above, students electing this concentration take CHEM 2410, 2420 (Organic Chemistry I & II) during the junior year (year 3) and take the following graduate courses at the University's Health Science Campus during their senior year (year 4): PUBH 600 (Public Health Statistics), PUBH 664 (Issues in Public Health), PUBH 601 (Public Health Epidemiology) and PUBH 660 (Health Behavior). If students maintain a 3.0 average in these 4 courses and their overall GPA, these students will be able to use these 12 credits toward the Master of Public Health Degree and should be able to complete BOTH the BS in Environmental Science and the MPH degrees in 5 years. Students interested in the Master of Science in Occupational Health degree rather than the MPH should also take PHYS 1750 (Introduction to Physics) as an undergraduate elective.

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 1020, 2100, 2230, 2500, 3100, 3210, 3220, 3310, 4240, 4410, 4610, 4640 (3 hours), 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 33-34 hours in the major. All students must complete the following: EEES 1010 or 2100, 1020, 2230, 2500, 3100, 3210, 3220, 3310, 4240, 4640 (3 hours), as well as two additional geology electives at the 3000-4000 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 EEES 1020, 2100, 2230, 2500, 3100, 3210, 3220, 3310, and one additional formal 3000-4000 level geology course. 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, 3210, 3220, 3310, 4610 and 4620 (21 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 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 environmental sciences 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 all department 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.

European Studies

(This program is an interdisciplinary major.)

Mark E. 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, 4640

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

Ruth A. Hottell, undergraduate Adviser, French

Friederike Emonds, 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 with scores of 3 or higher in Foreign Language exams will receive credit.

Specific awards are currently under review.

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 , 341 0, 3420, 4010 and 402 0*, and addi tional 3000/ 4000 l evel c ourses w ith Adviser's approval. Required courses for German are as follows: GERM 3010, 3020*, 3200, 3410 or 3420, 4010 and 4020*, and addi tional 3 000/4000 l evel c ourses with Adviser's a pproval. R equired c ourses for Spanish ar e: SPAN 3000, 3010, 3020* , 3210, 3220 (or 3270 , 3280) , 3410 (or 3420) and 4010 (or 41 10), an d addi tional 3000/4000 level courses with Adviser's approval.

Students i nterested i n b ecoming l egal Assistants m ay t ake a c ombined pr ogram i n S panish an d par alegal studies (the latter offered in the College of Health and Human Services). The Spanish portion of this program consists o f t he following c ourses: S PAN 3000, 3010, 3020* , 3170, 34 20, 4010 and 4060, and addi tional 3000/4000 l evel c ourses w ith Adviser's appr oval. T he de gree r equirements for the par alegal s tudies 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 hour s in related fields often are chosen from other humanities, including a s econd f oreign language, from the social sciences and from interdisciplinary programs. The related area requirement also may be satisfied by completing a minor or major in anot her discipline. S tudents s hould, i n c onsultation w ith t heir Adviser, dev elop a pat tern o f related a rea c ourses relevant to their career and intellectual interests.

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

The depa rtment o f foreign l anguages and t he d epartment o f m arketing offer a pr ogram for und ergraduates majoring i n a foreign l anguage w ho w ish t o pur sue graduate w ork i n b usiness and pr epare for a l ong-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 unde rgraduate 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 i nclude 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
or
SPAN 4010 Syntax and Stylistics 4

Literature course .....3 hours
Choose one:
SPAN 3220 Survey of Spanish Literature II .. 3
SPAN 3280 Survey of Latin American Literature II 3

Culture and civilization courses .....6 hours
SPAN 3410 Spanish Culture and Civilization. 3
SPAN 3420 Latin American Civilization 3

Applied course work (professional preparation)6 hours
SPAN 3170 Business Spanish 3
SPAN 4370 Advanced Business Spanish..... 3

Electives .....6 hours
Students choose from Spanish courses numbered 3000 or higher.

Total .....33-34 hours

Honors in Foreign Languages

Qualified students are invited to pursue honors in a French, German or Spanish major and thereby earn the degree designation of “departmental honors” in their specific field upon graduation. Formal application for

departmental honors should be made near the end of the sophomore year. Acceptance is based on the following: 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:

Applied French Minor .....Hours

FREN 3010, 3020 6
FREN 4010, 4020 7
Electives chosen from the following: Business French, French Phonetics, French Linguistics, Advanced Conversation or French Translation

General French Minor

FREN 3010, 3020 6
FREN 4010, 4020 7

Applied German Minor

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

General German Minor

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

Japanese Minor

JAPN 3010, 3020 6
JAPN 4010, 4020 7

Spanish Minor

SPAN 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

David J. Nemeth, undergraduate Adviser and honors Adviser

Degrees Offered

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

Advanced Placement

Advanced Placement students with a score of 3, 4, or 5 on the Human Geography Test will receive credit for GEPL 1010 (3 credit hours).

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 GEPL 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.

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.)

Mark E. Denham, Adviser

Degrees Offered

The global studies program offers a Bachelor of Arts degree.

Degree Requirements

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

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

William O'Neal, Chair and graduate Adviser

Michael Jakobson, undergraduate Adviser

Degrees Offered

The department of history offers a program for a Bachelor of Arts degree.

Advanced Placement

Students with a score of 3, 4 or 5 on the AP European History test will receive credit for HIST 1010 and 1020 (6 hours). Students with a score of 3, 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 3, 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. The related area requirement also may be satisfied by completing a major or minor in another discipline.

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 University Honors Program; departmental honors may be pursued concurrently. 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 earn departmental honors in history, each student will satisfactorily complete the following. The required credit hours are included among the 33 hours necessary for the major in history.
   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.)

Charles V. Blatz, 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.)

Renee Heberle, 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 through 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 (6 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.
- **Capstone – LST 4900 (3 hours)**

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. In order to earn program honors in law and social thought, the student must:

1. Have a minimum LST GPA of 3.4 and minimum cumulative GPA of 3.3;
2. Submit two papers from two different advanced Law and Social Thought courses to the Program Directors. These courses will also satisfy the LST elective or upper division seminar requirements;
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 university Honors College is not required for those seeking program honors;
4. Honors Thesis in Law and Social Thought (3 credit hours) will count as an elective course in the 36 hours required for the major.

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 Sociolingustics;
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 honor s t hesis, t he s tudent m ay, under appr opriate c ircumstances, pa rticipate i n anot her 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

Paul Hewitt, Chair
Donald B. White, Associate Chair
Zeljko Cuckovic, Associate Chair
Mao-Pei Tsui, undergraduate 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 3, 4 or 5 on the BC calculus test will receive credit for both MATH 1850 and 186 0. Students with a score below 3 may be able to obtain credit by taking a departmental test. Students with a score of 3 or better on the Statistics Test will receive credit for MATH 2600.

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.
c. The remaining course work may be chosen from courses at the 3000 or 4000 level approved by the Adviser.

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 1570, EECS 2100, EECS 2550, plus one additional course in EECS chosen in consultation with the Adviser for a minimum total of 16 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, or education. 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:** Students are normally admitted to departmental honors after completing the honors calculus sequence MATH 1920, MATH 1930, MATH 2950, and MATH 3820. Students may also be admitted to the program at the discretion of the Math Majors Committee and should consult the departmental honors Adviser.

B. **Requirements:** Graduation with honors in mathematics depends upon doing a substantial amount of work in mathematics beyond the requirements of the bachelor's degree. To graduate with departmental honors in mathematics a student must ordinarily maintain a GPA in mathematics greater than 3.5 and write an expository paper on a topic in mathematics that demonstrates knowledge of the subject matter significantly beyond the expectations of the student's course work. The research and writing of the paper is conducted under the supervision of a faculty member with an interest in the subject, and as a part of fulfilling this requirement the student must enroll in either the junior or senior reading class, MATH 3920 or MATH 4920, that counts as an elective in the major. The actual details of the student's program are determined by consulting with the Department's honors Adviser and the student's topic supervisor.

Medieval and Renaissance Studies

(This program is an interdisciplinary major.)

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 approves 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

Tim Brakel, 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.

Advanced Placement

For a score of 3, 4 or 5 on the Music Theory Advanced Placement exam, the department will award credit for MUS 2200 (3 credits).

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 Website www.music.utoledo.edu and click on "Audition Signup." For audition guidelines, visit 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.

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. 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

Core Music 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 1800: 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

Core Music 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

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

a. 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
b. Jazz Improvisation: MUS 1700, 2700, 2710, 3700 and 3710 – 10 hours
c. 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.

2009-2010 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.

Jazz Minor ..... Hours

MUS	1000	Performance Laboratory (2 semesters)	0
MUS	1010	Concert Attendance (3 semesters)	0
MUS	1570	Piano Class (Class assigned by diagnostic test;	
	1590	or a grade of C or better is required.)	
	2570		
	or		
	2580	.....	1

MUS	1700	Jazz Fundamentals	3
MUS	2700	Jazz Improvisation I	2
MUS	2710	Jazz Improvisation II	2
MUS	1800 2800	Applied Jazz Music*	8
MUS	3020 3150 3050: 136, or 3050: 137	Jazz Ensembles (4 semesters)	4
MUS	3450	Jazz History and Literature	3
Total			**22**

Instrumental Minor

MUS	1000	Performance Laboratory (2 semesters)	0
MUS	1010	Concert Attendance (3 semesters)	0
MUS	1570 1580 2570 or 2580	Piano Class (Class assigned by diagnostic test; a grade of C or better is required.)	1
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 3050:36, or 3090	Ensembles (4 semesters)	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
Total			**22**

Vocal Minor

MUS	1000	Performance Laboratory (2 semesters)	0
MUS	1010	Concert Attendance (3 semesters)	0
MUS	1570 1580 2570 or 2580	Piano Class (Class assigned by diagnostic test; a grade of C or better is required.)	1
MUS	1610	Music Theory and Ear Training I (a grade of C or better is required.)	4
MUS	1800 2800	Applied Music*	8
MUS	3140 3160 or 3180	Ensembles (4 semesters)	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

Total 22

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, 3050:44, 3090, 3140, 3160, or 3180	Ensembles (4 semesters)	4
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

Total 22

Music Theory Minor

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

Total 22

Music History and Literature Minor

MUS	1000	Performance Laboratory (2 semesters)	0
MUS	1010	Concert Attendance (3 semesters) 0	
MUS	1570 1580 2570 or 2580	Piano Class (class assigned by diagnostic test; a grade of C or better is required.) 1	
MUS	1610	Music Theory and Ear Training I (a grade of C or better is required.) 4	
MUS	2410 3410 and	Music History and Literature I-III (a grade of C or better is required in each course.)	

	3420	.....	9
MUS	4000 level	Music History Class.....	3
MUS	electives	Major level only, excluding ensembles	5

Total.....22

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 1580 1590 2570 or 2580	Piano or Jazz Piano Class (class assigned by diagnostic test; a grade of C or better is required.)	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 ..... (Internships are available for 2, 3, 4, or 6 hours)	6
PHYS	1310	Physics of Music and Sound	3

Total.....25

* 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 honor s 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.)

Sam Nelson, 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:

1. 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.
2. Three courses (minimum of nine hours) in the humanities (history, English literature, fine arts, philosophy or communication).
3. Two courses (minimum of six hours) in natural sciences (astronomy, biology, chemistry, geology or physics).
4. Completion of the major in political science as follows:
   a. 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.
   b. One course from three of the following four fields:

   Public Administration
   PSC 3420 Principles of Public Administration3
   International Relations
   PSC 2700 Principles of International Relations 3
   Comparative Government
   PSC 2610 Government of Great Britain or
   PSC 2620 Comparative Politics of Continental Europe or
   PSC 2660 Politics in Africa 3
   Political Theory
   PSC 2800 Principles of Political Theory 3

   c. Completion of additional courses in the department to satisfy the 30-hour requirement.
   d. Minimum of 18 hours (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.
   e. Electives to bring the total to a minimum of 64 hours. Students must also satisfy The University of Toledo Core Curriculum requirements.

Paralegal Studies and Spanish

(This program is an interdisciplinary major)

Juan Martin, Adviser

Antonio Varela, Adviser

Degrees Offered

The paralegal studies and Spanish program offers a Bachelor of Arts degree in Spanish.

Degree Requirements

This 2 + 2 program allows the student to complete an Associate's degree in paralegal studies from the College of Health and Human Services and a bachelor's degree in Spanish. Students selecting this program should plan to work closely with their academic Advisers in both parts of the program and with the paralegal studies coordinator. After completing the Associate's degree requirements, a student must complete at least 64 hours

of additional course work in the College of Arts and Sciences. This course work must include the following:

1. One course in history (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

Benjamin Pryor, Chair

Susan Purviance, 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

Karen S. Bjorkman, Chair

Jacques G. Amar, Associate Chair

Scott A. Lee, undergraduate Adviser, physics and astronomy

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, 4 or 5 on the Physics B test will receive credit for PHYS 2070 and 2080. Students with a score of 3, 4 or 5 on the Physics C Mechanics test will receive credit for PHYS 2130; students with a score of 3, 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.
Biomedical Physics: PHYS 3180, 3610, 4130, 4440, 4230, 4240, 4430, and 4780; and related courses BIOL 2150 and 2160, plus KINE 2510, 2520, 2530 and 2540 (or alternate sequence KINE 2460, 2470, 2560, and 2570)

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 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.

Minor in Renewable Energy
(This is an interdisciplinary minor)

The Minor in Renewable Energy (MRE) has been established as an interdisciplinary minor program. It is designed for students in the STEM areas majoring in the following departments: Physics and Astronomy, Chemistry, Environmental Sciences, Biology, Mathematics, MIME, Chemical and Environmental Engineering, Electrical Engineering and Computer Science, Civil Engineering and Bioengineering. Students with other majors can enroll in the MRE provided they complete the prerequisite courses.

The goal of the minor is to expose students to quantitative analyses of the use of energy in human societies, its consequences and environmental impacts. A primary focus will be on the advantages and complexities of introducing renewable energy resources. Students will be required to take at least one course in the social, political, and economic ramifications of the use of energy in general and renewable energy in particular. An internship is required to enhance the practical training of students.

The program is designed to allow students to obtain the 21 hour minor with as few additional requirements as possible beyond their normal STEM major. That is, some of the courses will also serve to satisfy the distribution requirements for graduation.

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Course requirements are as follow:
Students must complete at least 21 hours of coursework selected as follows:

Four required courses		
• PHYS 3400	Physical Principles of Energy Sources for Humans	3 credit hours
• EEES 2200/GEPL 2200	Climate Change	3 credit hours
• CHEM 3810	Chemistry of Sustainable Energy Resources	3 credit hours
• PHYS 4940	Internship in Renewable Energy	3 credit hours
Select one from		
• PSC 4340	Environmental Policy	3 credit hours
• ECON 3240	Environmental Economics	3 credit hours
Select two of the following		
• PHYS 4400	Varieties of Solar Energy	3 credit hours
• MIME 4410	Renewable Energy	3 credit hours
• CHEE/BIOE 4980	Biofuels	3 credit hours
• CHEE 4980	Fuel Cells and the Hydrogen Economy	3 credit hours

Prerequisites: PHYS 2080 General Physics II or higher, CHEM 1240 General Chemistry II, both courses under CHEE 4980 require MATH 1850 Single Variable Calculus I.

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

Lynn Bachelor, undergraduate Adviser

Sam Nelson, undergraduate Adviser

Degrees Offered

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

Advanced Placement

Students with a score of 3, 4 or 5 on the American Government and Politics examination will receive credit for PSC 1200. Students with a score of 3, 4 or 5 on the Comparative Government and Politics examination will receive credit for a Political Science 1000 level, three-credit elective.

Requirements for the Undergraduate Major

The Bachelor of Arts degree in political science requires:

1. PSC 1200 American National Government (3 hours) or PSC 1300 American National Politics: Multicultural Perspectives (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 1300 American National Politics: Multicultural Perspectives 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 1300 American National Politics: Multicultural Perspectives 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 1300 American National Politics: Multicultural Perspectives 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 take 9 hours of required courses and 12 hours of electives. Students must complete PSC 3110 Social Science Statistics, PSC 3420 Principles of Public Administration, and a third course chosen in consultation with the undergraduate public administration Adviser. A list of recommended elective courses is available from the Adviser.

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

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 3, 4 or 5 will receive credit for PSY 1010.

Requirements for the Undergraduate Major

The major in psychology must include a minimum of 35 semester hours of psychology courses as well as 18 hours of related courses. Courses for the major in psychology may not be taken as P/NC.

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 higher with a grade of C- or better 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 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

Select one of the following Advanced Research 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 or major 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 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

		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 3 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, 2500, 3080, 3350, 3580, 3710, 4310, and 4550

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 3 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, 2500, 3080, 3350, 3580, 3710, 4310, and 4550

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 Technology 3-6
SOC 4580 Science, Technology and Social Change 3
Electives Sociology or other courses with Adviser 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; these hours apply toward the 33 required in the major. 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, Chair and theatre Adviser
James S. Hill, theatre Adviser
Ed Lingan, theatre Adviser
Dyrk Ashton, film Adviser
Holly Hey, film 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

When a FILM course is a prerequisite for another FILM course, a grade of C or better must have been earned in the prerequisite course.

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. At least one credit must be taken at UT.

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 3

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
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

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 formal 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.

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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

Christopher Burnett, 2007, Associate Professor
B.F.A., Rhode Island School of Design; M.A., M.F.A., University of New Mexico

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

Debra Davis, 2000, Professor and Chair
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 of Art History
B.A., Brandeis University; M.A., Ph.D., Harvard University

David H. Guip, 1972, Professor
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

Barbara W. F. Miner, 2000, Associate 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

Richard Putney, 1979, Associate Professor
B.A., M.A., Ph.D., University of Delaware

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

Arturo Rodriguez, 2001, Associate 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
B.Ed., The University of Toledo; M. Ed., University of Toledo

Karen Roderick-Lingeman, 2003 Lecturer
B. Ed., The University of Toledo; M.F.A, University of North Dakota
Curator of Asian Art and Director of Collections, The Toledo Museum of Art

Department of Biological Sciences

Brian P. Ashburner, 2001, Associate Professor
B.A., St. Anselm College; Ph.D. Loyola University of Chicago

Bruce Bamber, 2006, Assistant Professor
B.Sc., University of Calgary; Ph.D., University of Washington

William L. Bischoff Jr., 1972, professor emeritus
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

Maria Diakonova, 2006, Assistant professor
Sc.B., M.S., Leningrad State University; Ph.D., Russian Academy of Sciences

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

John Gray, 1998, Associate professor
B.Sc. (Hons), University College Cork; Ph.D., Purdue University

Rosemary R. Haggett, 2007, professor, provost and executive vice president for academic affairs
B.A., University of Bridgeport; Ph.D., University of Virginia

Patricia R. Komuniecki, 1985, professor, vice provost for graduate affairs and dean, college of graduate studies
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

Malathi Krishnamurthy, 2010, Assistant professor
B.S., M.S., University of Delhi; Ph.D., Jawaharlal Nehru University

Douglas W. Leaman, 2001, Associate professor and chair
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

Guofa Liu, 2008, Assistant professor
M.B., Suzhou Medical College; M.S., Beijing Medical University; Ph.D., Shanghai Second Medical University

Song-Tao Liu, 2007, Assistant professor
B.S., Wuhan University; Ph.D., Shanghai Institute of Biochemistry

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, professor
B.S., University of Michigan; Ph.D., University of Vermont

Robert Steven, 2006, Assistant professor
B.Sc., Ph.D., University of Toronto

William Taylor, 2003, Associate 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

Department of Chemistry

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

John J. Belizzi, III, 2008, Assistant professor
S.B., Massachusetts Institute of Technology; M.S., Ph.D., Cornell University

Terry P. Bigioni, 2006, Assistant professor
B.Sc., M.Sc., University of Toronto; Ph.D., Georgia 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; Distinguished University 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

Wendell P. Griffith, 2007, Assistant professor
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Xiche Hu, 1998, Associate professor
B.S., M.S., Wuhan University; Ph.D., Wayne State University

Dragan Isailovic, 2008, Assistant professor
Diploma – Physical Chemistry, University of Belgrade, Serbia; Ph.D., Iowa State University

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

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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, Associate professor
Prediploma, Bergische Universität Wuppertal; M.S., Ph.D., Georgia Institute of Technology

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B.S., M.S., University of Toledo; MPH, Ph.D., The University of Michigan; DSc, University of Toledo

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

A. Alan Pinkerton, 1984, Distinguished University 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
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Steven J. Sucheck, 2005, Assistant professor
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Ronald E. Viola, 2000, Distinguished University professor
B.S., Fordham University; M.S., Ph.D., Pennsylvania State University

Kana Yamamoto, 2008, Assistant professor
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Lecturers

Claire Cohen-Schmidt, 2007, lecturer
B.S., University of Massachusetts; Ph.D., Cornell University

Edith P. Kippenhan, 2006, lecturer
B.S., University of Maryland; Dipl.-Chem., Universität des Saarlandes, Germany

James R. Zubricky, III, 2008, Associate lecturer
B.S., M.S., Bowling Green 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 emeritus, 2004
Diploma of Chemistry, University of Athens; M.S., Ph.D., University of British Columbia

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

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

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

James Ferris, 2008, Associate professor and Ability Center of Greater Toledo Endowed Chair in Disability Studies
B.A., Marquette University; M.A., University of Texas at Austin; Ph.D., Southern Illinois University at Carbondale

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

Paulette D. Kilmer, 1997, professor
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Richard J. Knecht, 1971, professor
B.S., University of Dayton; M.A., Miami University; Ph.D., The Ohio State University

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Paul A. Many, 1980, professor
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Brian A. Patrick, 2001, Associate professor
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Donald E. Reiber, 1979, Associate professor
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Sumitra Srinivasan, 2006, Assistant professor
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Lecturers

Dee Drummond, 2007, lecturer
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Emeritus Faculty

Carlton O. DeFosse, 1979, professor emeritus, 1999
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Bernice C. Marti, 1969, professor emeritus, 1983
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Norbert Mills, 1974, Associate professor emeritus, 2005
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Charles G. Russell, 1975, professor emeritus, 1999
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Ethel M. Wilcox, 1972, professor emeritus, 1999
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Olugbenga Ajilore, 2003, Assistant professor
B.A., U.C. Berkeley, Ph.D., Claremont Graduate University

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B.A., M.A., Ph.D., Stony Brook University, NY

Aliaksandr Amialchuk, 2007, Assistant professor
B.A., Hrodno State University; M.A., National University Kyiv-Mohyla Academy; Ph.D., University of Houston

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

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

Larry Cook, 2006, lecturer
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Michael R. Dowd, 1989, Associate professor and Chair
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Kevin Egan, 2005, Assistant professor
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Kristen Keith, 1994, Associate professor
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John E. Murray, 1994, professor and undergraduate Adviser
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Emeritus Faculty

Alan Gleason, 1970, professor emeritus, 1984
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Julius Gylys, 1967, professor emeritus, 1993
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Michael Magura, 1969, professor emeritus, 1999
B.A., St. Vincent College; M.A., Ph.D., Boston College

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

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

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

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

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

Department of English Language and Literature

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

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 Compora, 1993, Associate 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 Pittsburg; 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

Christina M. Fitzgerald, 2003, Assistant professor
B.A., Columbia University; M.A., Ph.D., University of California, Los Angeles

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

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

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

Carmen L. Phelps, 2008, Assistant professor
B.A./B.S., University of Kansas; M.A., Chicago State University; Ph.D., George Washington University

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

Parama Sarkar, 2009, Assistant professor
B.A., Presidency College; M.A., Jadavpur University; Ph.D., Michigan State University

Barbara Schneider, 2001, Associate 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

Samir Abu-Absi, 1968, professor emeritus, 2006
B.A., American University of Beirut; M.A., Ph.D., Indiana University

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

John W. Boening, 1969, professor emeritus, 2006
B.A., Pace College; M.A., University of Maryland; Ph.D., Indiana University

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

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

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

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

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

James K. Larson, 1965, Associate professor emeritus, 1993
B.A., M.A., Columbia University

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

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

Michael Manheim, 1961, professor emeritus, 1987

B.A., Columbia College; M.A., Ph.D., Columbia University

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

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

Robert S. Rudolph, 1965, professor emeritus, 1999
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